

REQUEST FOR AUTHORISATION OF A CLINICAL TRIAL ON A MEDICINAL PRODUCT FOR HUMAN USE TO THE COMPETENT AUTHORITIES AND FOR OPINION OF THE ETHICS COMMITTEES IN THE COMMUNITY

To be filled in by the applicant

The questions in this form for the request for authorisation from the Competent Authority are also relevant for the opinion from an Ethics Committee (it represents module 1 of the form for applying to an ethics committee) and can be used as part of that application. Please indicate the relevant purpose in a box below.

REQUEST FOR AUTHORISATION TO THE COMPETENT AUTHORITY: Yes •
REQUEST FOR OPINION OF THE ETHICS COMMITTEE: No •

A. TRIAL IDENTIFICATION

A.1	Member State in which the submission is being made:	Finland - Fimea
A.2	EudraCT number:	2017-000645-48
A.3	Full title of the trial: English	Open-label study to evaluate efficacy and safety of Cystadane for the treatment of aspartylglucosaminuria
	Finnish	Cystadane aspartylglukosaminurian hoidossa: tehoa ja turvallisuutta koskeva tutkimus
A.3.1	Title of the trial for lay people, in easily understood, i.e. non-technical, language: English	Cystadane in the treatment of AGU
	Finnish	Cystadane AGU-taudin hoidossa
A.3.2	Name or abbreviated title of the trial where available: English	Cystadane in the treatment of AGU
	Finnish	Cystadane AGU-taudin hoidossa
A.4	Sponsor's protocol code number, version and date ¹ :	
A.4.1	Sponsor's protocol code number:	AGU-001
A.4.2	Sponsor's protocol version:	1
A.4.3	Sponsor's protocol date:	2017-04-19
A.5	Additional international study identifiers (e.g. WHO, ISRCTN ² , US NCT Number ³) if available	
A.5.1	ISRCTN number:	
A.5.2	US NCT number:	
A.5.3	WHO Universal Trial Number (UTN):	
A.5.4	Other Identifier:	
A.6	Is this a resubmission?	No •
	If 'Yes', indicate the resubmission letter ⁴ :	First Submission
A.7	Is the trial part of an agreed Paediatric Investigation Plan?	No •
A.8	EMA Decision number of Paediatric Investigation Plan:	

B. IDENTIFICATION OF THE SPONSOR RESPONSIBLE FOR THE REQUEST

B.1 SPONSOR	
B.1.1	Name of organisation: Minna Laine
B.1.2	Name of the person to contact: Minna
B.1.2.1	Given name Minna
B.1.2.2	Middle name
B.1.2.3	Family name Laine
B.1.3	Address:
B.1.3.1	Street address Peijas hospital, Sairaalakatu 1/ P.O.Box 900
B.1.3.2	Town/city Vantaa
B.1.3.3	Post code 00029 HUS
B.1.3.4	Country Finland
B.1.4	Telephone number:
B.1.5	Fax number:
B.1.6	E-mail: minna.laine@hus.fi
B.2 LEGAL REPRESENTATIVE⁵ OF THE SPONSOR IN THE COMMUNITY FOR THE PURPOSE OF THIS TRIAL (if different from the sponsor)	
B.2.1	Name of organisation:
B.2.2	Name of person to contact:
B.2.2.1	Given name
B.2.2.2	Middle name
B.2.2.3	Family name
B.2.3	Address:
B.2.3.1	Street address
B.2.3.2	Town/city
B.2.3.3	Post code
B.2.3.4	Country
B.2.4	Telephone number:
B.2.5	Fax number:
B.2.6	E-mail:
B.3 STATUS OF THE SPONSOR:	
B.3.1	Commercial: No •
B.3.2	Non commercial: Yes •
B.4 Source(s) of Monetary or Material Support for the clinical trial (repeat as necessary):	
B.4.1	Name of organisation: Orphan Europe SARL
B.4.2	Country: France
B.5 Contact point⁶ designated by the sponsor for further information on the trial	
B.5.1	Name of organisation: University of Giessen
B.5.2	Functional name of contact point (e.g. "Clinical Trial Information Desk"): Prof. Dr. Ritva Tikkanen
B.5.3	Address:
B.5.3.1	Street address Friedrichstrasse 24
B.5.3.2	Town/city Giessen
B.5.3.3	Post code 35392
B.5.3.4	Country Germany
B.5.4	Telephone number: 49 641 9947 420
B.5.5	Fax number:
B.5.6	E-mail: (use a functional e-mail address rather than a personal one) ritva.tikkanen@biochemie.med.uni-giessen.de

B.1 SPONSOR	
B.1.1	Name of organisation: Prof. Ritva Tikkanen
B.1.2	Name of the person to contact: Ritva
B.1.2.1	Given name Hannele
B.1.2.2	Middle name Tikkanen
B.1.2.3	Family name
B.1.3	Address: Friedrichstrasse 24
B.1.3.1	Street address Giessen
B.1.3.2	Town/city D-35392
B.1.3.3	Post code Germany
B.1.3.4	Country
B.1.4	Telephone number: 49 641 9947 420
B.1.5	Fax number:
B.1.6	E-mail: ritva.tikkanen@biochemie.med.uni-giessen.de
B.2 LEGAL REPRESENTATIVE⁵ OF THE SPONSOR IN THE COMMUNITY FOR THE PURPOSE OF THIS TRIAL (if different from the sponsor)	
B.2.1	Name of organisation:
B.2.2	Name of person to contact:
B.2.2.1	Given name
B.2.2.2	Middle name
B.2.2.3	Family name
B.2.3	Address:
B.2.3.1	Street address
B.2.3.2	Town/city
B.2.3.3	Post code
B.2.3.4	Country
B.2.4	Telephone number:
B.2.5	Fax number:
B.2.6	E-mail:
B.3 STATUS OF THE SPONSOR:	
B.3.1	Commercial: No •
B.3.2	Non commercial: Yes •
B.4 Source(s) of Monetary or Material Support for the clinical trial (repeat as necessary):	
B.4.1	Name of organisation: Orphan Europe SARL
B.4.2	Country: France
B.5 Contact point⁶ designated by the sponsor for further information on the trial	
B.5.1	Name of organisation: Prof. Dr. Ritva Tikkanen
B.5.2	Functional name of contact point (e.g. "Clinical Trial Information Desk"): Scientific Coordinator
B.5.3	Address:
B.5.3.1	Street address Friedrichstrasse 24
B.5.3.2	Town/city Giessen
B.5.3.3	Post code D-35392
B.5.3.4	Country Germany
B.5.4	Telephone number: 49 641 9947 420
B.5.5	Fax number:
B.5.6	E-mail: (use a functional e-mail address rather than a personal one) ritva.tikkanen@biochemie.med.uni-giessen.de

C. APPLICANT IDENTIFICATION, (please tick the appropriate box)

C.1	REQUEST FOR THE COMPETENT AUTHORITY	
C.1.1	Sponsor	Yes •
C.1.2	Legal representative of the sponsor	
C.1.3	Person or organisation authorised by the sponsor to make the application	
C.1.4	Complete the details of the applicant below even if they are provided elsewhere on the form:	
C.1.4.1	Name of Organisation:	Minna Laine
C.1.4.2	Name of contact person:	
C.1.4.2.1	Given name	Minna
C.1.4.2.2	Middle name	
C.1.4.2.3	Family name	Laine
C.1.4.3	Address:	
C.1.4.3.1	Street address	Peijas hospital, Sairaalakatu 1 / P.O.Box 900
C.1.4.3.2	Town/city	Vantaa
C.1.4.3.3	Post code	00029 HUS
C.1.4.3.4	Country	Finland
C.1.4.4	Telephone number:	
C.1.4.5	Fax number:	
C.1.4.6	E-mail:	minna.laine@hus.fi
C.1.5	Request to receive a copy of CTA data as XML:	
C.1.5.1	Do you want a copy of the CTA form data saved on EudraCT as an XML file?	Yes •
C.1.5.1.1	If Yes provide the e-mail address(es) to which it should be sent (up to 5 addresses):	
	ritva.tikkanen@biochemie.med.uni-giessen.de	
	minna.laine@hus.fi	
C.1.5.1.2	Do you want to receive this via password protected link(s)?	No •
	If you answer No to question C.1.5.1.2 the .xml file will be transmitted by less secure e-mail link(s)	

D. INFORMATION ON EACH IMP

Information on each 'bulk product' before trial-specific operations (blinding, trial specific packaging and labelling) should be provided in this section for each investigational medicinal product (IMP) being tested including each comparator and each placebo, if applicable. **For placebo go directly to D.8.** If the trial is performed with several products use extra pages and give each product a sequential number in D.1.1. If the product is a combination product, information should be given for each active substance.

D.1 IMP IDENTIFICATION		
Indicate which of the following is described below, then repeat as necessary for each of the numbered IMPs to be used in the trial (assign numbers from 1-n):		
D.1.1	This refers to the IMP number:	PR1
D.1.2	IMP being tested	Yes •
D.1.3	IMP used as a comparator	No •
D.2 STATUS OF THE IMP		
D.2.1	Has the IMP to be used in the trial a marketing authorisation?	Yes •
If the IMP has a marketing authorisation in the Member State concerned by this application, but the trade name and marketing authorisation holder are not fixed in the protocol, go to section D.2.2.		
D.2.1.1	If 'Yes', specify the product to be used in the clinical trial:	
D.2.1.1.1	Trade name Cystadane anhydrous	
D.2.1.1.1.1	EV Product Code (where applicable)	EMEA/H/C/000678
D.2.1.1.2	Name of the Marketing Authorisation Holder:	Orphan Europe SARL
D.2.1.1.3	Marketing Authorisation number (if Marketing Authorisation granted by a Member State):	EU/1/06/379/001
D.2.1.1.4	Is the IMP modified in relation to its Marketing Authorisation?	No •
D.2.1.1.4.1	If 'Yes', please specify:	
D.2.1.2	The country that granted the Marketing Authorisation	European Union
D.2.1.2.1	Is this the Member State concerned with this application?	Not Answered •
D.2.2	Situations where an IMP to be used in the CT has a Marketing Authorisation in the Member State concerned, but the protocol allows that any brand of the IMP with a Marketing Authorisation in that Member State be administered to the trial subjects and it is not possible to clearly identify the IMP(s) in advance of the trial start	
D.2.2.1	In the protocol, is treatment defined only by active substance?	No •
D.2.2.1.1	If 'Yes', give active substance in D.3.8 or D.3.9	
D.2.2.2	In the protocol, do treatment regimens allow different combinations of marketed products used according to local clinical practice at some or all investigator sites in the MS?	No •
D.2.2.2.1	If 'Yes', give active substance in D.3.8 or D.3.9	
D.2.2.3	The products to be administered as IMPs are defined as belonging to an ATC group ⁹	Yes •
D.2.2.3.1	If 'Yes', give the ATC group of the applicable authorised codes in the ATC code field (level 3 or the level that can be defined) in D.3.3	
D.2.2.4	Other:	No •
D.2.2.4.1	If 'Yes', please specify:	
D.2.3	IMPD submitted:	
D.2.3.1	Full IMPD:	Yes •
D.2.3.2	Simplified IMPD:	No •
D.2.3.3	Summary of product characteristics (SmPC) only:	No •
D.2.4	Has the use of the IMP been previously authorised in a	No •

	clinical trial conducted by the sponsor in the Community?	
D.2.4.1	If 'Yes' specify which Member States:	
D.2.5	Has the IMP been designated in this indication as an orphan drug in the Community?	Yes •
D.2.5.1	If 'Yes', give the orphan drug designation number ¹⁰ :	EU/3/01/045

D.2.6	Has the IMP been the subject of scientific advice related to this clinical trial?	No •
D.2.6.1	If 'Yes' to D.2.6, please indicate source of advice and provide a copy in the CTA request:	
D.2.6.1.1	CHMP ¹¹ ?	No •
D.2.6.1.2	National Competent Authority?	No •

D.3 DESCRIPTION OF THE IMP		
D.3.1	Product name where applicable ¹² :	
D.3.2	Product code where applicable ¹³ :	
D.3.3	ATC codes, if officially registered ¹⁴ :	A16AA06
D.3.4	Pharmaceutical form (use standard terms):	Oral powder
D.3.4.1	Is this a specific paediatric formulation?	No •
D.3.5	Maximum duration of treatment of a subject according to the protocol:	48 months
D.3.6	Dose allowed:	
D.3.6.1	For first trial only:	Total •
	Specify per day or total	
	Specify total dose (number and unit):	
	Route of administration (relevant to the first dose):	
D.3.6.2	For all trials	
	Specify per day or total	Per day •
	Specify total dose (number and unit):	6 g gram(s)
	Route of administration (relevant to the maximum dose):	Oral use
D.3.7	Routes of administration (use standard terms):	Oral use

D.3.8	Name of each active substance (INN or proposed INN if available):	
D.3.9	Other available name for each active substance (provide all available):	
D.3.9.1	CAS ¹⁵ number	
D.3.9.2	Current sponsor code	
D.3.9.3	Other descriptive name	
D.3.9.4	EV Substance code	
D.3.9.5	Full Molecular formula	
D.3.9.6	Chemical/biological description of the Active Substance	
D.3.10	Strength (specify all strengths to be used):	
D.3.10.1	Concentration unit:	
D.3.10.2	Concentration type ("exact number", "range", "more than" or "up to"):	
D.3.10.3	Concentration (number).	

D.3.11	Type of IMP	
	Does the IMP contain an active substance:	
D.3.11.1	Of chemical origin?	No •
D.3.11.2	Of biological / biotechnological origin (other than Advanced Therapy IMP (ATIMP))?	Yes •
	Is this a:	
D.3.11.3	Advanced Therapy IMP (ATIMP)?	No •
D.3.11.3.1	Somatic cell therapy medicinal product ¹⁶ ?	No •
D.3.11.3.2	Gene therapy medicinal product ¹⁷ ?	No •

D.3.11.3.3	Tissue Engineered Product ¹⁸ ?	No •
D.3.11.3.4	Combination ATIMP (i.e. one involving a medical device ¹⁹)?	No •
D.3.11.3.5	Has the Committee on Advanced Therapies issued a classification for this product?	No •
D.3.11.3.5.1	If 'Yes' please provide that classification and its reference number:	
D.3.11.4	Combination product that includes a device, but does not involve an Advanced Therapy?	No •
D.3.11.5	Radiopharmaceutical medicinal product?	No •
D.3.11.6	Immunological medicinal product (such as vaccine, allergen, immune serum)?	No •
D.3.11.7	Plasma derived medicinal product?	No •
D.3.11.8	Extractive medicinal product?	No •
D.3.11.9	Recombinant medicinal product?	No •
D.3.11.10	Medicinal product containing genetically modified organisms?	No •
D.3.11.10.1	Has the authorisation for contained use or release been granted?	No •
D.3.11.10.2	Is it pending?	No •
D.3.11.11	Herbal medicinal product?	No •
D.3.11.12	Homeopathic medicinal product?	No •
D.3.11.13	Another type of medicinal product?	No •
D.3.11.13.1	If 'another type of medicinal product' specify the type of medicinal product:	
D.3.12	Mode of action (<i>free text</i> ²⁰)	
D.3.13	Is it an IMP to be used in a first-in-human clinical trial?	No •
D.3.13.1	If 'Yes', are there risk factors identified, according to the guidance FIH? ²¹	

D.4 SOMATIC CELL THERAPY INVESTIGATIONAL MEDICINAL PRODUCT (NO GENETIC MODIFICATION)		
D.4.1	Origin of cells	No •
D.4.1.1	Autologous	No •
D.4.1.2	Allogeneic	No •
D.4.1.3	Xenogeneic	No •
D.4.1.3.1	If 'Yes', specify the species of origin:	
D.4.2	Type of cells	
D.4.2.1	Stem cells	No •
D.4.2.2	Differentiated cells	No •
D.4.2.2.1	If 'Yes', specify the type (e.g. keratinocytes, fibroblasts, chondrocytes...):	
D.4.2.3	Others:	No •
D.4.2.3.1	If others, specify:	

D.5 GENE THERAPY INVESTIGATIONAL MEDICINAL PRODUCTS		
D.5.1	Gene(s) of interest:	
D.5.2	In vivo gene therapy:	No •
D.5.3	Ex vivo gene therapy:	No •
D.5.4	Type of gene transfer product	
D.5.4.1	Nucleic acid (e.g. plasmid):	No •
D.5.4.1.1	If 'Yes', specify if:	
D.5.4.1.1.1	Naked:	No •
D.5.4.1.1.2	Complexed	No •
D.5.4.2	Viral vector:	No •
D.5.4.2.1	If 'Yes', specify the type: adenovirus, retrovirus, AAV, ...:	
D.5.4.3	Others	No •

D.5.4.3.1	If others, specify:	
D.5.5	Genetically modified somatic cells:	No •
	If 'Yes', specify the origin of the cells:	
D.5.5.1	Autologous:	No •
D.5.5.2	Allogeneic:	No •
D.5.5.3	Xenogeneic:	No •
D.5.5.3.1	If 'Yes', specify the species of origin:	
D.5.5.4	Specify type of cells (hematopoietic stem cells...):	

D.6 TISSUE ENGINEERED PRODUCT		
The indication which determines that this is a Tissue Engineered Product as opposed to a Cell Therapy product is given in section E.1.1.		
D.6.1	Origin of cells	
D.6.1.1	Autologous	No •
D.6.1.2	Allogeneic	No •
D.6.1.3	Xenogeneic	No •
D.6.1.3.1	If 'Yes', specify the species of origin:	
D.6.2	Type of cells	
D.6.2.1	Stem cells	No •
D.6.2.2	Differentiated cells	No •
D.6.2.2.1	If 'Yes', specify the type of cells(e.g. keratinocytes, fibroblasts, chondrocytes, ...):	
D.6.2.3	Others:	No •
D.6.2.3.1	If others, specify:	

D.7 PRODUCTS CONTAINING DEVICES (i.e. MEDICAL DEVICES, SCAFFOLDS ETC.)		
D.7.1	Give a brief description of the device:	
D.7.2	What is the name of the device?	
D.7.3	Is the device implantable?	No •
D.7.4	Does this product contain:	
D.7.4.1	A medical device?	No •
D.7.4.1.1	Does this medical device have a CE mark?	No •
D.7.4.1.1.1	The notified body is:	
D.7.4.2	Bio-materials?	No •
D.7.4.3	Scaffolds?	No •
D.7.4.4	Matrices?	No •
D.7.4.5	Other?	No •
D.7.4.5.1	If other, specify:	

D.8 INFORMATION ON PLACEBO (if relevant; repeat as necessary)

D.8.1	Is there a placebo:	No •
D.8.2	This refers to placebo number:	
D.8.3	Pharmaceutical form:	
D.8.4	Route of administration:	
D.8.5	Which IMP is it a placebo for? Specify IMP Number(s) from D.1.1	
D.8.5.1	Composition, apart from the active substance(s):	
D.8.5.2	Is it otherwise identical to the IMP?	Yes ? No ? Not Answered ?

D.8.5.2.1 If not, specify major ingredients:

D.9 SITE(S) WHERE THE QUALIFIED PERSON CERTIFIES BATCH RELEASE²²

*This section is dedicated to **finished IMPs**, i.e. medicinal products randomised, packaged, labelled and certified for use in the clinical trial. If there is more than one site or more than one IMP is certified, use extra pages and give each IMP its number from section D.1.1 or D.8.2 In the case of multiple sites indicate the product certified by each site*

D.9.1	<p>Do not fill in section D.9.2 for an IMP that: <i>Has a MA in the EU and</i> <i>Is sourced from the EU market and</i> <i>Is used in the trial without modification(e.g. not overencapsulated) and</i> <i>The packaging and labelling is carried out for local use only as per article 9.2. of the Directive 2005/28/EC (GCP Directive)</i> If all these conditions are met tick • and list the number(s) of each IMP including placebo from sections D.1.1 and D.8.2 to which this applies PR1</p>
-------	---

D.9.2	<p>Who is responsible in the Community for the certification of the finished IMPs? This site is responsible for certification of (list the number(s) of each IMP including placebo from sections D.1.1 and D.8.2): please tick the appropriate box:</p> <p>D.9.2.1 Manufacturer ? D.9.2.2 Importer ? D.9.2.3 Name of the organisation: D.9.2.4 Address: D.9.2.4.1 Street Address D.9.2.4.2 Town/City D.9.2.4.3 Post Code D.9.2.4.4 Country D.9.2.5 Give the manufacturing authorisation number: D.9.2.5.1 If No authorisation, give the reasons: <i>Where the product does not have a MA in the EU, but is supplied in bulk and final packaging and labelling for local use is carried out in accordance with article 9.2 of Directive 2005/28/EC (GCP Directive) then enter the site where the product was finally certified for release by the Qualified Person for use in the clinical trial at D.9.2 above.</i></p>
-------	---

E. GENERAL INFORMATION ON THE TRIAL

This section should be used to provide information about the aims, scope and design of the trial. When the protocol includes a sub-study in the MS concerned section E.2.3 should be completed providing information about the sub-study. To identify it check the sub-study box in the 'Objective of the trial' question below.

E.1 MEDICAL CONDITION OR DISEASE UNDER INVESTIGATION			
E.1.1	Specify the medical condition(s) to be investigated ²³ (free text):		
	English	Aspartylglucosaminuria	
	Finnish	Aspartyyliglukosaminuria	
E.1.1.1	Medical condition in easily understood language		
	English	Aspartylglucosaminuria (AGU) is a progressive disease that results in severe mental retardation of the patients. The main symptom of the disease is the progressive loss of mental capabilities.	
	Finnish	Aspartyyliglukosaminuria (AGU) on vaikeaa kehitysvammaisuutta aiheuttava, etenevä lastenneurologinen tauti. Taudin pääoire on henkisen kehityksen taantuminen.	
E.1.1.2	Therapeutic area		
	Diseases [C] - Congenital, Hereditary, and Neonatal Diseases and Abnormalities [C16]		
E.1.2	MedDRA version, system organ class, level, term and classification code ²⁴ :		
	Version	System Organ Class	Classification Code
			Term
			Level
E.1.3	Is any of the conditions being studied a rare disease ²⁵ ?		Yes •
E.2 OBJECTIVE OF THE TRIAL			
E.2.1	Main objective:		
	English	Safety and efficacy of Cystadane in the treatment of AGU	
	Finnish	Cystadanen teho ja turvallisuus AGU-taudin hoidossa	
E.2.2	Secondary objectives:		
	English	Urine glycoasparagines AGA enzyme activity in white blood cells Cognitive function and psychological tests Quality of life survey Adaptive skills MRI findings of the brain Methionin level Absence of adverse events	
	Finnish	Glykoasparagiinien eritys virtsaan AGA-entsyymin aktiivisuus valkosoluissa Henkinen kehitys ja psykologiset testit Elämänlaatukysely Arjen toimintakyky Aivojen magneettilöökset Metioniinipitoisuus Vakavien haittavaikutusten puuttuminen	
E.2.3	Is there a sub-study?		No •
E.2.3.1	If 'Yes', give the full title, date and version of each sub-study and their related objectives:		

E.3 PRINCIPAL INCLUSION CRITERIA (list the most important)	
English	<p>Patients below the age of 15 years who have aspartylglucosaminuria Preferably homozygous for the Finnish major AGU mutation, AGU-Fin-major</p> <p>Written informed consent of the parents</p> <p>No known hypersensitivity or allergy against betain</p> <p>Compliance of the patient</p>
Finnish	<p>Alle 15-vuotiaat potilaat, jotka sairastavat aspartylglukosaminuriaa</p> <p>Erityisesti potilaat, jotka ovat homotsygootteja suomalaisen valtamutaation, AGU-Fin-major, suhteen</p> <p>Kirjallinen suostumus vanhemmilta</p> <p>Ei tunnettua yliherkkyyttä betaiinille</p> <p>Potilaan hyväksi arvioitu yhteistyökyky</p>
E.4 PRINCIPAL EXCLUSION CRITERIA (list the most important)	
English	<p>Age above 15 years</p> <p>Patients who do not carry at least one allele of the Finnish major mutation</p> <p>Known adverse reactions against Betain or components of Cystadane</p> <p>Known history of cerebral oedema <input type="checkbox"/></p> <p>Participating in other interventional clinical studies</p> <p>Patients who have undergone bone marrow transplantation</p> <p>Co-medication which would interfere with administration of Betain</p>
Finnish	<p>Yli 15-vuotiaat AGU-potilaat</p> <p>AGU-potilaat, joilla ei kummassakaan alleelissa ole suomalaista valtamutaatiota</p> <p>Tunnettu yliherkkyys betaiinille tai Cystadanen ainesosille</p> <p>Aikaisempi havainto aivopaineen noususta</p> <p>Potilaan osallistuminen muihin interventionalisiin klinisiin lääketutkimuksiin</p> <p>Potilaat, joille on tehty luuydinskiitto</p> <p>Muu lääkitys, joka saattaisi häiritä betaiinin antamista</p>
E.5 END POINT(S):	
E.5.1	<p>Primary End Point (repeat as necessary)²⁶</p> <p>English Primary endpoint is the urinary excretion of glycosaparagines</p> <p>Finnish Ensijainen päätemuuttuja on glykoasparagiinien määrä virtsassa.</p>
E.5.1.1	<p>Timepoint(s) of evaluation of this end point</p> <p>English</p> <p>0 months (starting point)</p> <p>3 months</p> <p>6 months</p> <p>12 months</p> <p>15 months</p> <p>24 months</p> <p>36 months</p> <p>48 months</p> <p>Finnish</p> <p>0 kk (alkuarvo)</p> <p>3 kk</p>

**6 kk
12 kk
15 kk
24 kk
36 kk
48 kk**

E.5.2	Secondary End Point (repeat as necessary)
	English AGA enzyme activity in white blood cells Psychological tests Visit at child neurologists Quality of life survey Adaptive skills MRI findings of the brain Methionin Level in serum Absence of adverse events
	Finnish AGA-entsyymin aktiivisuus valkosoluissa Psykologiset testit Lastenneurologin tutkimus Elämänlaatukysely Arjen toimintakyky Aivojen magneettikuvaus Metioniinipitoisuus seerumissa Vakavien haittavaikutusten puuttuminen

E.5.2.1	Timepoint(s) of evaluation of this end point
	English AGA enzyme activity in white blood cells: 0, 3, 6, 12, 15, 24, 36, 48 months Psychological tests: 0, 24, 48 months Child neurologist: 0, 3, 12, 15, 24, 36, 48 months Quality of life survey: 0, 12, 24, 36, 48 months Adaptive skills: 0, 12, 24, 36, 48 months MRI findings of the brain: 0, 12, 24, 36, 48 months Methionin level: 0, 3, 6, 12, 24 months Absence of adverse events: continuously
	Finnish AGA-entsyymin aktiivisuus valkosoluissa: 0, 3, 6, 12, 15, 24, 36, 48 kk Psykologiset testit: 0, 24, 48 kk Lastenneurologin tutkimus: 0, 3, 12, 15, 24, 36, 48 Elämänlaatukysely: 0, 12, 24, 36, 48 kk Arjen toimintakyky: 0, 12, 24, 36, 48 kk Aivojen magneettikuvaus: 0, 12, 24, 36, 48 kk Metioniinipitoisuus: 0, 3, 6, 12, 24 kk Vakavien haittavaikutusten puuttuminen: jatkuvasti

E.6 SCOPE OF THE TRIAL – Tick all boxes where applicable	
E.6.1	Diagnosis
E.6.2	Prophylaxis
E.6.3	Therapy
E.6.4	Safety
E.6.5	Efficacy
E.6.6	Pharmacokinetic
E.6.7	Pharmacodynamic
E.6.8	Bioequivalence
E.6.9	Dose Response
E.6.10	Pharmacogenetic
E.6.11	Pharmacogenomic

E.6.12	Pharmacoeconomic	No •
E.6.13	Others	No •
E.6.13.1	If others, specify:	

E.7 TRIAL TYPE AND PHASE²⁷		
E.7.1	Human pharmacology (Phase I)	No •
Is it:		
E.7.1.1	First administration to humans	No •
E.7.1.2	Bioequivalence study	No •
E.7.1.3	Other:	No •
E.7.1.3.1	If other, please specify:	
E.7.2	Therapeutic exploratory (Phase II)	Yes •
E.7.3	Therapeutic confirmatory (Phase III)	No •
E.7.4	Therapeutic use(Phase IV)	No •

E.8 DESIGN OF THE TRIAL		
E.8.1	Controlled	Yes •
	If 'Yes', specify:	
E.8.1.1	Randomised:	No •
E.8.1.2	Open:	Yes •
E.8.1.3	Single blind:	No •
E.8.1.4	Double blind:	No •
E.8.1.5	Parallel group:	No •
E.8.1.6	Cross over:	No •
E.8.1.7	Other:	No •
E.8.1.7.1	If other specify:	
E.8.2	If controlled, specify the comparator:	
E.8.2.1	Other medicinal product(s)	No •
E.8.2.2	Placebo	No •
E.8.2.3	Other	Yes •
E.8.2.3.1	If 'Yes' to other, specify :	
	Finnish	3 kk tauko lääkkeen käytössä 12 kk jälkeen
	English	Treatment break of 3 months after 12 months of use
E.8.2.4	Number of treatment arms in the trial	1
E.8.3	Single site in the Member State concerned (see also section G):	Yes •
E.8.4	Multiple sites in the Member State concerned(see also section G):	No •
E.8.4.1	Number of sites anticipated in Member State concerned	
E.8.5	Multiple Member States:	No •
E.8.5.1	Number of sites anticipated in the EEA:	
E.8.6	Trial involving sites outside the EEA:	
E.8.6.1	Trial being conducted both within and outside the EEA:	No •
E.8.6.2	Trial being conducted completely outside of the EEA:	No •
E.8.6.3	If E.8.6.1 or E.8.6.2 are Yes, specify the regions in which trial sites are planned:	
E.8.6.4	If E.8.6.1 or E.8.6.2 are Yes, specify the number of sites anticipated outside of the EEA:	
E.8.7	Trial having an independent data monitoring committee:	No •
E.8.8	Definition of the end of trial: If it is the last visit of the last subject, please enter "LVLS". If it is not LVLS provide the definition:	
	English	After 48 months of starting the test medication
	Finnish	48 kk päästä lääkkeen käytön aloittamisesta
E.8.9	Initial estimate of the duration of the trial ²⁸ (years, months and days)	
E.8.9.1	In the Member State concerned	4 years months days
E.8.9.2	In all countries concerned by the trial	years months days
E.8.10	Proposed date of start of recruitment	
E.8.10.1	In the Member State concerned	2017-09-30

E.8.10.2 In any country

F. POPULATION OF TRIAL SUBJECTS

F.1 AGE RANGE			
F.1.1	Are the trial subjects under 18? If 'Yes', specify the estimated number of subjects planned in each age range for the whole trial:	Approx. No. of patients ²⁹	Yes • 15
F.1.1.1	In utero	()	No •
F.1.1.2	Preterm newborn infants (up to gestational age < 37 weeks)	()	No •
F.1.1.3	Newborns (0-27 days)	()	No •
F.1.1.4	Infants and toddlers (28 days - 23 months)	()	No •
F.1.1.5	Children (2-11 years)	(12)	Yes •
F.1.1.6	Adolescents (12-17 years)	(3)	Yes •
F.1.2	Adults (18-64 years)	()	No •
F.1.3	Elderly (>= 65 years)	()	No •
F.2 GENDER			
F.2.1	Female	Yes •	
F.2.2	Male	Yes •	
F.3 GROUP OF TRIAL SUBJECTS			
F.3.1	Healthy volunteers	No •	
F.3.2	Patients	Yes •	
F.3.3	Specific vulnerable populations	Yes •	
F.3.3.1	Women of child bearing potential not using contraception	No •	
F.3.3.2	Women of child bearing potential using contraception	No •	
F.3.3.3	Pregnant women	No •	
F.3.3.4	Nursing women	No •	
F.3.3.5	Emergency situation	No •	
F.3.3.6	Subjects incapable of giving consent personally	Yes •	
F.3.3.6.1	If 'Yes', specify: English Children, handicapped with a mental retardation Finnish Lapsipotilaat, joilla on kehitysvamma		
F.3.3.7	Others:	No •	
F.3.3.7.1	If 'Yes', specify:		
F.4 PLANNED NUMBER OF SUBJECTS TO BE INCLUDED:			
F.4.1	In the member state	15	
F.4.2	For a multinational trial:		
F.4.2.1	In the EEA		
F.4.2.2	In the whole clinical trial		
F.5 PLANS FOR TREATMENT OR CARE AFTER THE SUBJECT HAS ENDED HIS/HER PARTICIPATION IN THE TRIAL. please specify (free text):			
English	Standard treatment of the disease. In case a follow-up study is planned, possible inclusion.		
Finnish	AGU-taudin tavanomainen hoito. Jos tutkimukselle on suunnitelle jatkovaihe, mahdollisesti siihenkin osallistuminen.		

**G. CLINICAL TRIAL SITES/INVESTIGATORS IN THE MEMBER STATE
CONCERNED BY THIS REQUEST**

G.1 CO-ORDINATING INVESTIGATOR (for multicentre trial) and principal investigator (for single centre trial)		
G.1.1	Given name:	Minna
G.1.2	Middle name, if applicable:	
G.1.3	Family name:	Laine
G.1.4	Qualification (MD.....)	MD, PhD, child neurologist
G.1.5	Professional address:	
G.1.5	Institution name	Helsinki University Hospital
G.1.5	Institution department	Peijas Hospital
G.1.5.1	Street address	Sairaalakatu 1
G.1.5.2	Town/city	Vantaa
G.1.5.3	Post code	00029 HUS
G.1.5.4	Country	Finland
G.1.6	Telephone number:	
G.1.7	Fax number:	
G.1.8	E-mail:	Minna.Laine@hus.fi

G.2 PRINCIPAL INVESTIGATORS (for multicentre trial ; where necessary, use additional forms)		
G.2.1	Given name:	
G.2.2	Middle name, if applicable:	
G.2.3	Family name:	
G.2.4	Qualification (MD.....)	
G.2.5	Professional address:	
G.2.5	Institution name	
G.2.5	Institution department	
G.2.5.1	Street address	
G.2.5.2	Town/city	
G.2.5.3	Post code	
G.2.5.4	Country	
G.2.6	Telephone number:	
G.2.7	Fax number:	
G.2.8	E-mail:	

G.3 CENTRAL TECHNICAL FACILITIES TO BE USED IN THE CONDUCT OF THE TRIAL		
Laboratory or other technical facility, in which the measurement or assessment of the main evaluation criteria are centralised (repeat as needed for multiple organisations).		
G.3.1	Name of organisation:	Islab
G.3.2	Department	Pohjois-Savon Aluelaboratorio
G.3.3	Name of contact person:	
G.3.3.1	Given name	
G.3.3.2	Middle name	
G.3.3.3	Family name	
G.3.4	Address:	
G.3.4.1	Street address	Puijonlaaksontie 2
G.3.4.2	Town/city	Kuopio
G.3.4.3	Post code	70211
G.3.4.4	Country	Finland
G.3.5	Telephone number:	358 44 717 8720
G.3.6	Fax number:	
G.3.7	E-mail:	
G.3.8	Enter the details of any duties subcontracted to this central technical facility in this trial	
G.3.8.1	Routine clinical pathology testing	No •

G.3.8.2	Clinical chemistry	Yes •
G.3.8.3	Clinical haematology	No •
G.3.8.4	Clinical microbiology	No •
G.3.8.5	Histopathology	No •
G.3.8.6	Serology/ endocrinology	No •
G.3.8.7	Analytical chemistry	No •
G.3.8.8	ECG analysis/ review	No •
G.3.8.9	Medical image analysis/ review - X-ray, MRI, ultrasound, etc.	No •
G.3.8.10	Primary/ surrogate endpoint test	Yes •
G.3.8.11	Other Duties subcontracted?	No •
G.3.8.11.1	If 'Yes', specify the other duties	

G.4 NETWORKS TO BE INVOLVED IN THE TRIAL (e.g. Paediatric Networks involved in the trial)		
G.4.1	Name of organisation:	University of Giessen
G.4.2	Name of contact person:	
G.4.2.1	Given name	Ritva
G.4.2.2	Middle name	
G.4.2.3	Family name	Tikkanen
G.4.3	Address:	
G.4.3.1	Street address	Friedrichstrasse 24
G.4.3.2	Town/city	Giessen
G.4.3.3	Post code	D-35392
G.4.3.4	Country	Germany
G.4.4	Telephone number:	
G.4.5	Fax number:	
G.4.6	E-mail:	ritva.tikkanen@biochemie.med.uni-giessen.de
G.4.7	Activities carried out by the network:	Scientific PI, responsible for scientific data, contact with Orphan Europe Measurement of leukocyte AGA activity

G.4 NETWORKS TO BE INVOLVED IN THE TRIAL (e.g. Paediatric Networks involved in the trial)		
G.4.1	Name of organisation:	Prof. Taina Autti
G.4.2	Name of contact person:	
G.4.2.1	Given name	Taina
G.4.2.2	Middle name	
G.4.2.3	Family name	Autti
G.4.3	Address:	
G.4.3.1	Street address	PL 340
G.4.3.2	Town/city	Helsinki
G.4.3.3	Post code	00029 HUS
G.4.3.4	Country	Finland
G.4.4	Telephone number:	
G.4.5	Fax number:	
G.4.6	E-mail:	Taina.Autti@hus.fi
G.4.7	Activities carried out by the network:	MRI Imaging and analysis of the respective data

G.4 NETWORKS TO BE INVOLVED IN THE TRIAL (e.g. Paediatric Networks involved in the trial)		
G.4.1	Name of organisation:	Prof. Päivi Helenius
G.4.2	Name of contact person:	
G.4.2.1	Given name	Päivi
G.4.2.2	Middle name	

G.4.2.3	Family name	Helenius
G.4.3	Address:	
G.4.3.1	Street address	Diagnostis-terapeuttinен osasto, PL340
G.4.3.2	Town/city	Helsinki
G.4.3.3	Post code	00029 HUS
G.4.3.4	Country	Finland
G.4.4	Telephone number:	
G.4.5	Fax number:	
G.4.6	E-mail:	Paivi.helenius@hus.fi
G.4.7	Activities carried out by the network:	Neuropsychological testing, quality of life survey

G.5 ORGANISATIONS TO WHOM THE SPONSOR HAS TRANSFERRED TRIAL RELATED DUTIES AND FUNCTIONS		
G.5.1	Has the sponsor transferred any major or all the sponsor's trial related duties and functions to another organisation or third party?	Yes •
Repeat as necessary for multiple organisations:		
G.5.1.1	Organisation name:	
G.5.1.2	Organisation department	
G.5.1.3	Name of contact person :	
G.5.1.3.1	Given name	
G.5.1.3.2	Middle name	
G.5.1.3.3	Family name	
G.5.1.4	Address:	
G.5.1.4.1	Street address	
G.5.1.4.2	Town/city	
G.5.1.4.3	Post code	
G.5.1.4.4	Country	
G.5.1.5	Telephone number:	
G.5.1.6	Fax number:	
G.5.1.7	E-mail:	
G.5.1.8	All tasks of the sponsor	No •
G.5.1.9	Monitoring	No •
G.5.1.10	Regulatory (e.g. preparation of applications to CA and ethics committee)	No •
G.5.1.11	Investigator recruitment	No •
G.5.1.12	IVRS ³⁰ – treatment randomisation	No •
G.5.1.13	Data management	No •
G.5.1.14	E-data capture	No •
G.5.1.15	SUSAR reporting	No •
G.5.1.16	Quality assurance auditing	No •
G.5.1.17	Statistical analysis	No •
G.5.1.18	Medical writing	No •
G.5.1.19	Other duties subcontracted?	No •
G.5.1.19.1	If 'Yes' to other, please specify:	

H. COMPETENT AUTHORITY / ETHICS COMMITTEE IN THE MEMBER STATE CONCERNED BY THIS REQUEST

H.1 TYPE OF APPLICATION

If this application is addressed to the Competent Authority, please tick the Ethics Committee box and give information on the Ethics committee concerned. If this application is addressed to the Ethics Committee, please tick the Competent Authority box and give the information on the Competent Authority concerned.

H.1.1	Competent Authority	No •
H.1.2	Ethics Committee	Yes •

H.2 INFORMATION ON ETHICS COMMITTEE

H.2.1	Name:	Unknown
H.2.2	Address	
H.2.2.1	Street address	
H.2.2.2	Town/city	
H.2.2.3	Post code	
H.2.2.4	Country	
H.2.3	Date of submission:	

H.3 OPINION

H.3.1	To be requested	Yes •
H.3.2	Pending	No •
H.3.3	Given	No •
	If 'Given', specify:	
H.3.3.1	Date of opinion:	
H.3.3.2	Opinion favourable	No •
H.3.3.3	Opinion not favourable	No •
	If not favourable, give:	
H.3.3.3.1	The reasons	
H.3.3.3.2	The eventual anticipated date of resubmission:	

I. SIGNATURE OF THE APPLICANT IN THE MEMBER STATE

I.1	I hereby confirm that /confirm on behalf of the sponsor (delete which is not applicable) that:
	<ul style="list-style-type: none">• the information provided is complete;• the attached documents contain an accurate account of the information available;• the clinical trial will be conducted in accordance with the protocol; and• the clinical trial will be conducted, and SUSARs and result-related information will be reported, in accordance with the applicable legislation.

I.2	APPLICANT OF THE REQUEST FOR THE COMPETENT AUTHORITY (as stated in section C.1):
I.2.1	Date:
I.2.2	Signature ³¹ :
I.2.3	Print name:

I.3	APPLICANT OF THE REQUEST FOR THE ETHICS COMMITTEE (as stated in section C.2):
I.3.1	Date:
I.3.2	Signature ³² :
I.3.3	Print name:

ENDNOTES

¹ Any translation of the protocol should be assigned the same date and version as those in the original document.

² International Standard Randomised Controlled Trial Number. Sponsors may wish to use an International Standardised Random Controlled Trial Number (ISRCTN) to identify their trial in addition to the EudraCT number; for instance if their trial is part of a multinational trial with sites outside the Community. They can obtain the number and guidance from the Current Controlled Trials website <http://www.controlled-trials.com/isrctn> to which there is a link from the EudraCT database website <http://eudract.ema.europa.eu>. When available they should provide it in Section A.6 of the application form.

³ US National Clinical Trial (NCT) Numbers required on the FDA clinical trial application form.

⁴ For a resubmission following previous withdrawal of an application or unfavourable opinion of an ethics committee, or previous withdrawal of an application or refusal of a request by the competent authority, enter a letter in the sequence, A for first resubmission, B for second, C for third et seq.

⁵ In accordance with Article 19 of Directive 2001/20/EC.

⁶ The contact point should give functional information rather than details of one "person", in order to avoid the need for update and maintenance of these contact details.

⁷ This requires a EudraLink account. (See <https://eudract.ema.europa.eu/document.html> for details)

⁸ According to national legislation.

⁹ Available from the Summary of Product Characteristics (SmPC)

¹⁰ According to the Community register on orphan medicinal products (Regulation (EC) n° 141/2000): <http://ec.europa.eu/enterprise/pharmaceuticals/register/index.htm>

¹¹ Committee for Medicinal Products for Human Use of the European Medicines Agency

¹² To be provided only when there is No trade name. This is the name routinely used by a sponsor to identify the IMP in the CT documentation (protocol, IB...).

¹³ To be provided only when there is No trade name. This is a code designated by the sponsor which represents the name routinely used by the sponsor to identify the product in the CT documentation. For example, a code may be used for combinations of drugs or drugs and devices.

¹⁴ Available from the Summary of Product Characteristics (SmPC).

¹⁵ Chemical Abstracts Service.

¹⁶ Complete also section D.4 Cell therapy as defined in Annex 1 part IV of Directive 2001/83/EC as amended.

¹⁷ Complete also section D.5 Gene Therapy as defined in Annex 1 part IV of Directive 2001/83/EC as amended.

¹⁸ Complete also section D.6 - Tissue Engineered Product as defined in Article 2(1)(b) of Regulation 1394/2007/EC.

¹⁹ Complete also section D.7

²⁰ The mode of action should briefly describe the chemical, biochemical, immunological or biological means the IMP uses to effect its pharmaceutical action.

²¹ Guideline on strategies to identify and mitigate risks for first-in-human clinical trials with investigational medicinal products. EMEA/CHMP/SWP/28367/2007 19 July 2007

²² In accordance with paragraph 38 of Annex 13 of Volume 4 of the Rules Governing Medical Products in the European Union.

²³ In the case of healthy volunteer trials, the intended indication for the product under development should be provided.

²⁴ Applicants are encouraged to provide the MedDRA lower level term if applicable and classification code. These can be accessed from the EMEA EudraCT website (<http://eudract.ema.europa.eu/>).

²⁵ Points to consider on the calculation and reporting of the prevalence of a condition for Orphan drug designation: COM/436/01 (<http://www.ema.europa.eu/htms/human/orphans/intro.htm>).

²⁶ The protocol will usually identify a single primary end point but there may be a co-primary end point in some cases and/or a number of secondary end points.

²⁷ The descriptions of the trial types provided are those recommended in preference to Phases. See page 5 of Community guideline CPMP/ICH/291/95. The development of a new indication after initial approval of a medicine should be considered as a new development plan.

²⁸ From the first inclusion until the last visit of the last subject.

²⁹ These numbers will be initial estimates. Applicants will not be required to update this information nor do they constitute an authorisation or restriction on the inclusion of these numbers of patients in the trial. The numbers of subjects whose inclusion is authorised are those set out in the authorised version of the protocol, or subsequent authorised amendments.

³⁰ Interactive Voice Response System: commonly used for randomisation of treatment and controlling the shipment of stock of product.

³¹ On an application to the Competent Authority only, the applicant to the Competent Authority needs to sign.

³² On an application to the Ethics Committee only, the applicant to the Ethics Committee needs to sign.