

## Editorial Policy Checklist

This form is used to ensure compliance with Nature Portfolio editorial policies related to research ethics and reproducibility. For further information, please see our [editorial policies](#) site. All relevant questions on the form must be answered.

### Competing interests

Policy information about [competing interests](#)

In the interest of transparency and to help readers form their own judgements of potential bias, Nature Portfolio journals require authors to declare any competing financial and/or non-financial interest in relation to the work described in the submitted manuscript.

#### Competing interests declaration

We declare that none of the authors have competing financial or non-financial interests as defined by Nature Portfolio.

We declare that one or more of the authors have a competing interest as defined by Nature Portfolio.

All authors are current or former employees of Eli Lilly and Company.

### Authorship

Policy information about [authorship](#)

Prior to submission all listed authors must agree to all manuscript contents, the author list and its order and the author contribution statements. Any changes to the author list after submission must be approved by all authors.

We have read the Nature Portfolio Authorship Policy and confirm that this manuscript complies.

Policy information about Authorship: inclusion & ethics in global research

All authors are encouraged to provide an "Inclusion & Ethics" statement where relevant.

We have provided an "Inclusion & Ethics" statement.

### Data availability

Policy information about [availability of data](#)

#### Data availability statement

All manuscripts must include a [data availability statement](#). This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our [policy](#)

We have provided a full data availability statement in the manuscript.

#### Mandated accession codes ([where applicable](#))

Confirm that all relevant data are deposited into a public repository and that accession codes are provided.

All relevant accession codes are provided  Accession codes will be available before publication  No data with mandated deposition

### Code availability

Policy information about [availability of computer code](#)

#### Code availability statement

For all studies using custom code or mathematical algorithm that is deemed central to the conclusions, the manuscript must include a statement under the heading "Code availability" describing how readers can access the code, including any access restrictions. Code availability statements should be provided as a separate section after the data availability statement but before the References.

We have provided a full code availability statement in the manuscript

## Data presentation

For all data presented in a plot, chart or other visual representation confirm that:

n/a	Confirmed
<input type="checkbox"/>	<input checked="" type="checkbox"/> Individual data points are shown when possible, and always for $n \leq 10$
<input type="checkbox"/>	<input checked="" type="checkbox"/> The format shows data distribution clearly (e.g. dot plots, box-and-whisker plots)
<input checked="" type="checkbox"/>	<input type="checkbox"/> Box-plot elements are defined (e.g. center line, median; box limits, upper and lower quartiles; whiskers, 1.5x interquartile range; points, outliers)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Clearly defined error bars are present and what they represent (SD, SE, CI) is noted

## Image integrity

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Unprocessed data must be provided upon request. Please double-check figure assembly to ensure that all panels are accurate (e.g. all labels are correct, no inadvertent duplications have occurred during preparation, etc.).

Where blots and gels are presented, please take particular care to ensure that lanes have not been spliced together, that loading controls are run on the same blot, and that unprocessed scans match the corresponding figures.

## Additional policy considerations

Some types of research require additional policy disclosures. Please indicate whether each of these apply to your study. If you are not certain, please read the appropriate section before selecting a response.

Does not apply	Involved in the study
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<input checked="" type="checkbox"/>	<input type="checkbox"/> Archaeological, geological, and palaeontological materials

## Biological materials

Policy information about [availability of materials](#)

Obtaining biological materials

New chemical compounds are described that are integral to the conclusions of the paper. The antibody drug conjugates described in this manuscript were prepared at limited research scale only, and thus are not available for distribution. Authors have provided the chemical structures and experimental methods for the ADCs incorporating coding amino acids that should be sufficient to allow other researchers to reproduce the synthesis and characterization.

We have described these restrictions in the manuscript.  We have described how to obtain all materials in the manuscript.

## Research animals

Policy information about [studies involving animals](#); [ARRIVE guidelines](#) recommended for reporting animal research

### Ethical compliance

We have complied with all relevant ethical regulations and include a statement affirming this in the manuscript.

### Ethics committee

We have disclosed the name(s) of the board and institution that approved the study protocol in the manuscript.

I certify that all the above information is complete and correct.

Typed signature Matthew D. Linnik

Date Jan 24, 2023

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