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Initial submission	Revised version	Final submissio	

Life Sciences Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form is intended for publication with all accepted life

	ence papers and provides structure for consistency and tra ms might not apply to an individual manuscript, but all fiel	ansparency in reporting. Every life science submission will use this form; some list ds must be completed for clarity.	
	further information on the points included in this form, s licies, including our <u>data availability policy</u> , see <u>Authors & I</u>	ee <u>Reporting Life Sciences Research</u> . For further information on Nature Research <u>Referees</u> and the <u>Editorial Policy Checklist</u> .	
F	Experimental design		
1.	Sample size		
	Describe how sample size was determined.	This is a crystallographic study. Data were collected from single crystals, as is best practice.	
2.	Data exclusions		
	Describe any data exclusions.	No data were excluded	
3.	Replication		
	Describe whether the experimental findings were reliably reproduced.	Two independent crystal structures are reported.	
4.	Randomization		
	Describe how samples/organisms/participants were allocated into experimental groups.	N/A	
5.	Blinding		
	Describe whether the investigators were blinded to group allocation during data collection and/or analysis.	N/A	
	Note: all studies involving an mals and/or human research partic	pants must disclose whether blinding and randomization were used.	
6.	Statistical parameters		
	For all figures and tables that use statistical methods, cor Methods section if additional space is needed).	nfirm that the following items are present in relevant figure legends (or in the	
n/a	'a Confirmed		
	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement (animals, litters, cultures, e		
X	A description of how samples were collected, noting whether measurements were taken from distinct samples or whether the same sample was measured repeatedly		
	A statement indicating how many times each experiment was replicated		
X	The statistical test(s) used and whether they are one- or two-sided (note: only common tests should be described solely by name; more complex techniques should be described in the Methods section)		
X	A description of any assumptions or corrections, such as an adjustment for multiple comparisons		
X	The test results (e.g. P values) given as exact values whenever possible and with confidence intervals noted		
	A clear description of statistics including central tendency (e.g. median, mean) and variation (e.g. standard deviation, interquartile range		
	Clearly defined error bars		

See the web collection on statistics for biologists for further resources and guidance.

icy information about <u>availability of computer code</u>	
Software	
Describe the software used to analyze the data in this study.	Software is described (and citations given) in detail in the methods section.
For manuscripts utilizing custom algorithms or software that are available to editors and reviewers upon request. We strongly encoroliding algorithms and software for publication provides further	central to the paper but not yet described in the published literature, software must be made courage code deposition in a community repository (e.g. GitHub). Nature Methods guidance for er information on this topic.
Materials and reagents	
icy information about <u>availability of materials</u>	
Materials availability	
Indicate whether there are restrictions on availability of unique materials or if these materials are only available for distribution by a for-profit company.	All materials are freely available
Antibodies	
Describe the antibodies used and how they were validated for use in the system under study (i.e. assay and species).	n/a
. Eukaryotic cell lines	
a. State the source of each eukaryotic cell line used.	n/a
b. Describe the method of cell line authentication used.	n/a
c. Report whether the cell lines were tested for mycoplasma contamination.	n/a
d. If any of the cell lines used are listed in the database of commonly misidentified cell lines maintained by ICLAC, provide a scientific rationale for their use.	n/a
Animals and human research participan	its
licy information about studies involving animals, when rep	orting animal research, follow the <u>ARRIVE guidelines</u>
. Description of research animals	
Provide details on animals and/or animal-derived materials used in the study.	n/a
licy information about studies involving human research p	articipants
. Description of human research participants	
Describe the covariate-relevant population characteristics of the human research participants.	n/a