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Last updated by author(s):	Jun 3, 2019

## **Reporting Summary**

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistics					
1	ses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a Confirmed					
The exact san	nple size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
A statement of	on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
	The statistical test(s) used AND whether they are one- or two-sided  Only common tests should be described solely by name; describe more complex techniques in the Methods section.				
A description	A description of all covariates tested				
A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons					
A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)					
For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.					
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i> ), indicating how they were calculated					
·	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.				
Software and o	code				
Policy information abo	ut <u>availability of computer code</u>				
Data collection	HKL-3000				
Data analysis	PHASER, Phenix, Coot, and PyMOL				
For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.					
Data					
<ul> <li>Accession codes, ur</li> <li>A list of figures that</li> </ul>	ut <u>availability of data</u> include a <u>data availability statement</u> . This statement should provide the following information, where applicable: iique identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability				
Structure factors and ato	omic coordinates have been deposited in the Protein Data Bank (PDB) with the accession code 605F.				
Field-spec	ific reporting				
Please select the one b	pelow that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.				
✓ Life sciences    Behavioural & social sciences    Ecological, evolutionary & environmental sciences					
For a reference copy of the d	ocument with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>				

## Life sciences study design

All studies must disclose on these points even when the disclosure is negative.		
Sample size	Single crystal with the dimensions of 0.15 mm X 0.15 mm X 0.10 mm from the crystallization condition described in the manuscript.	
Data exclusions	All data were used for structural solution and refinement.	
Replication	The crystal is reproducible and resulting in the same structure.	
Randomization	The crystal was picked randomly and mounted in a random orientation.	
Blinding	X-ray diffraction data from one single crystal is sufficient for structure determination.	

## Reporting for specific materials, systems and methods

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.

iviateriais & experimental systems		Methods	
n/a	Involved in the study	n/a	Involved in the study
$\boxtimes$	Antibodies	$\boxtimes$	ChIP-seq
$\boxtimes$	Eukaryotic cell lines	$\boxtimes$	Flow cytometry
$\boxtimes$	Palaeontology	$\boxtimes$	MRI-based neuroimaging
$\boxtimes$	Animals and other organisms		
$\boxtimes$	Human research participants		
$\boxtimes$	Clinical data		