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## **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>.

Statistical parameters		
When statistical analyses are reported, confirm that the following items are present in the relevant location (e.g. figure legend, table legend, main text, or Methods section).		
n/a Confirmed		
The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement		
An indication of 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 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 statistics including <u>central tendency</u> (e.g. means) or other basic estimates (e.g. regression coefficient) AND <u>variation</u> (e.g. standard deviation) or associated <u>estimates of uncertainty</u> (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		
Clearly defined error bars State explicitly what error bars represent (e.g. SD, SE, CI)		
Our web collection on <u>statistics for biologists</u> may be useful.		
Software and code		
Policy information about <u>availability of computer code</u>		
Data collection Quantification of band intensity was performed using ImageStudio (LI-COR Biosciences).		

## Data

Data analysis

Policy information about availability of data

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

GraphPad PRISM (version 7) was used for curve-fitting and to determine steady state kinetics.

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 upon request. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

The crystal structure reported in this work has been deposited in the protein data bank and assigned the pdb IDcode 6MW7. All other data that support the findings of this study are available from the corresponding author upon reasonable request.

Field-specific reporting			
Please select the best fit for your research. If you are not sure, read the appropriate sections before making your selection.			
☐ Behavioural & social sciences ☐ Ecological, evolutionary & environmental sciences			
For a reference copy of the document with all sections, see <a href="mailto:nature.com/authors/policies/ReportingSummary-flat.pdf">nature.com/authors/policies/ReportingSummary-flat.pdf</a>			
Life sciences study design			
All studies must disclose on these points even when the disclosure is negative.			
Sample size	All biochemical experiments were independently repeated, at least two times in technical triplicate, to ensure each data point was repeatable.		
Data exclusions	No data were excluded.		
Replication	Replicate experiments were successful.		
Randomization	The experiments were not randomized.		
Blinding	Blinding is not relevant to this study. In structural studies, samples are not allocated into experimental groups and this study did not include animals or human subjects.		
Reporting for specific materials, systems and methods			
n/a Involved in th	Methods  e study  logical materials  Methods  n/a Involved in the study  ChIP-seq  Flow cytometry		
Eukaryotic cell lines  Palaeontology  Animals and other organisms  Human research participants			
Animals and other organisms			
Policy information about studies involving animals; ARRIVE guidelines recommended for reporting animal research			
Laboratory anima	The study did not involve laboratory animals.		

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Laboratory animals	The study did not involve laboratory animals.	
Wild animals	The study did not involve wild animals.	
Field-collected samples	The study did not involve samples collected from the field	