## natureresearch

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## **Reporting Summary**

Life sciences

Behavioural & social sciences

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, seeAuthors & Referees and theEditorial Policy Checklist.

Sta	atistics				
For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.					
n/a	Confirmed				
	<b>x</b> The exact sam	ple size $(n)$ for each experimental group/condition, given as a discrete number and unit of measurement			
	X A statement of	on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
x		test(s) used AND whether they are one- or two-sided ests should be described solely by name; describe more complex techniques in the Methods section.			
x	A description	of all covariates tested			
x	A description	of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons			
x	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficien AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
x	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 <i>Give P values as exact values whenever suitable.</i>				
x	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings				
x	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes				
x	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.			
So	ftware and c	ode			
Policy information about <u>availability of computer code</u>					
Data collection		autoPROC pipeline, DIALS pipeline, Astra 6.1; Bruker Data acquisition			
Data analysis		Phaser, Refmac5, Phenix, AceDRG, Coot; Astra 6.1; Bruker Dynamics centre; Prism 7			
	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/reviewed We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.				
Da	ita				
Policy information about <u>availability of data</u> All manuscripts must include a <u>data availability statement</u> . This statement should provide the following information, where applicable:  - 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 structural data that support the findings of this study have been deposited in the Protein Data Bank. The coordinates for SAMHD1 inhibitor complexes have the PDB accession numbers 6TX0, 6TXA, 6TXC, 6TXF, 6YOM and 6XU1.				
Field-specific reporting  Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.					
מוט	aca calact tha ana h	alow that is the hest tit for your research. It you are not sure, read the appropriate sections before making your selection			

Ecological, evolutionary & environmental sciences

## Life sciences study design

Sample size	N/A
Data exclusions	N/A
Replication	N/A
Randomization	N/A
Blinding	N/A
anartin	g for specific materials, systems and methods

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.

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