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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 our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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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
	$oxed{x}$ The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	🗴 A statement 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 of all covariates tested
x	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)
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
×	\square Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated
	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.

Software and code

Policy information about availability of computer code

Data collection

Prism 8, GraphPad Software, Inc., La Jolla, CA

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Fiji ImageJ opensource win x64

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 and 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

Policy information about availability of data

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 list of figures that have associated raw data
- A description of any restrictions on data availability

The authors declare that [the/all other] data supporting the findings of this study are available within the paper [and its supplementary information files].

Life sciences study design

LITE SCIET	1003 310	ady design		
All studies must dis	sclose on these	points even when the disclosure is negative.		
Sample size	For in vivo study, n=15 mice per treatment group were used in the efficacy study and n=3 mice per timepoint were used to determine the compounds PK profile. For the in vitro experiments, n=5-6 spheroids per treatment group were used.			
Data exclusions	Not applicable			
Replication For in vitro sture replicates.		ies, each treatment condition was repeated at least 2-3 times and measurements for each condition were pooled from the		
Randomization	Not applicable			
Blinding	Not applicable			
We require information system or method list Materials & exp	on from authors a ted is relevant to perimental s	·		
Animals an Human res Clinical dat	cell lines ogy and archaeol d other organism search participant	s s		
Antibodies Antibodies used	BioTec	y conjugated antibodies for γH2Ax (gamma H2AX [p Ser139] Antibody [Alexa Fluor 488], NB100-384AF488, Novus Bio/ hne), caspase-3 (CC3, Caspase-3 Antibody (31A1067) [Alexa Fluor 594], NB100-56708AF594, and KI67 (Anti-Ki67 antibody 10] (Alexa Fluor 647), ab196907, Abcam)		
Validation				
Eukaryotic c	ell lines			
Policy information a	about <u>cell lines</u>			
Cell line source(s)		SW620 (CCL-227, ATCC)		
Authentication		No further authentication apart from ATCC original		
Mycoplasma contai	mination	Mycoplasma negative		
		Bic-1, Boonstra et al. refer to the contaminant as SW620. However, SW-480 and SW-620 were derived from the same individual, so both carry the same identity; the contaminating cell line could be either of these two cell lines.		

Animals and other organisms

Policy information about <u>studies involving animals</u>; <u>ARRIVE guidelines</u> recommended for reporting animal research

Laboratory animals

Swiss athymic nu/nu male mice adults

	(CB-17 SCID female mice , adults	
Wild animals	The study did not involved wild animals	
Field-collected samples	The study did not involved samples collected from the field	
Ethics oversight	All in vivo studies complied with all relevant ethical regulations for animal testing and research, followed AstraZeneca's global bioethics policy and received ethical approval from the AstraZeneca ethical committee. All studies were conducted in the UK in accordance with UK Home Office legislation, the Animal Scientific Procedures Act 1986 and under Home Office project licence 40/8894.	

Note that full information on the approval of the study protocol must also be provided in the manuscript.