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Data Sheet

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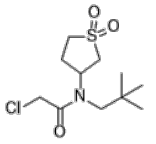
Product Name	:	Sulfopin
Cat. No.	:	PC-22076
CAS No.	:	2451481-08-4
Molecular Formula	:	$C_{11}H_{20}ClNO_3S$
Molecular Weight	:	281.80
Target	:	Other Targets
Solubility	:	10 mM in DMSO



CAS: 2451481-08-4

Biological Activity

Sulfopin is a potent, selective and covalent inhibitor of Pin1 with Ki of 17 nM in FP assay, targets Pin1's active site Cys113, blocks Myc-driven tumors.
Sulfopin inhibits the catalytic activity of Pin1 with an apparent Ki of 211 nM in chymotrypsin-coupled peptidyl-prolyl isomerization assay.
Sulfopin is highly selective for Pin1 Cys113 over other 161 cysteine residues.
Sulfopin could phenocopy Pin1 knockout.
Sulfopin significantly resensitized HeLa cells to irradiation in a dose-dependent manner, and decreases IRAK1 Thr209 phosphorylation at concentrations as low as 100 nM.
Sulfopin (1 μM) shows a Pin1-dependent viability effect following long-term exposure.
Sulfopin downregulates Myc transcriptional activity and increases c-Myc protein levels in Mino B cells, blocks neuroblastoma in zebrafish.
Sulfopin (20 or 40 mg/kg) inhibits pancreatic cancer progression in mice, significantly extends survival.

References

Dubiella C, et al. Nat Chem Biol. 2021 Sep;17(9):954-963.

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