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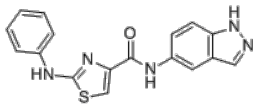
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	GPS167
Cat. No.	:	PC-73373
CAS No.	:	3034312-19-8
Molecular Formula	:	$C_{17}H_{13}N_5OS$
Molecular Weight	:	335.385
Target	:	Cdc2-like Kinase (CLK)
Solubility	:	10 mM in DMSO



Biological Activity

GPS167 is a specific small molecule splicing regulator **SRSF10** inhibitor, modulates BCLAF1 splicing with IC50 of 2 uM in human colorectal HCT116 cells, directly inhibits **CLK1**, **CLK2** and **CLK4**, but not SRPK1 and DYRK1A.
GPS167 promotes the dephoshorylation of SRSF10 and changes its interaction with partner proteins.
GPS167 treatment leads to a partial dephosphorylation of SRSF10 and increases the recovery of CLK1 and CLK4.
GPS167 impairs the growth of cancer cell line, elicits p53-dependent cytotoxicity.
GPS167 is cytotoxic for human colorectal cancer organoids but not normal organoids.

References

Muhammad Sohail, et al. ***NAR Cancer.*** 2021 May 25;3(2):zcab019.

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