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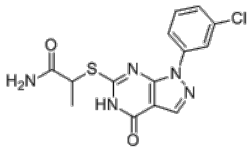
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	HS-38
Cat. No.	:	PC-62870
CAS No.	:	1030203-81-6
Molecular Formula	:	$C_{14}H_{12}ClN_5O_2S$
Molecular Weight	:	349.793
Target	:	DAPK
Solubility	:	10 mM in DMSO



Biological Activity

HS-38 is a potent and selective **DAPK1** and **DAPK3 (ZIPK)** inhibitor with IC50 of 200 nM for DAPK1 and Kd of 280 nM for ZIPK.
HS-38 also inhibits Pim3 (IC50=200 nM), and displays no activity against Src or Abl, little activity against EGFR.
HS-38 decreases RLC20 phosphorylation in cells, and decreases contractile force generated in mouse aorta, rabbit ileum, and calyculin A stimulated arterial muscle by decreasing RLC20 and MYPT1 phosphorylation.
HS-38 also promotes relaxation in Ca(2+)-sensitized vessels.

References

Carlson DA, et al. ***ACS Chem Biol.*** 2013 Dec 20;8(12):2715-23.

MacDonald JA, et al. ***Mol Pharmacol.*** 2016 Jan;89(1):105-17.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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