

Product Name : HS-38

Synonyms : HS38

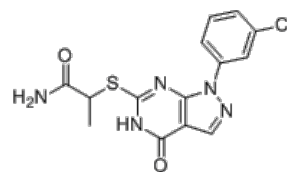
Cat No. : M10146

CAS Number : 1030203-81-6

Molecular Formula : C₁₄H₁₂ClN₅O₂S

Formula Weight : 349.79

Chemical Name : 2-[[1-(3-Chlorophenyl)-4,5-dihydro-4-oxo-1H-pyrazolo[3,4-d]pyrimidin-6-yl]thio]propanamide



Description : HS-38 is a potent and selective DAPK1 and DAPK3 (ZIPK) inhibitor with IC₅₀ of 200 nM for DAPK1 and K_d of 280 nM for ZIPK, also inhibits Pim3 (IC₅₀=200 nM), and displays no activity against Src or Abl, little activity against EGFR; 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; also promotes relaxation in Ca(2+)-sensitized vessels.

Pathway : Apoptosis

Target : DAPK

Receptor : DAPK

Solubility : —

SMILES : CC(SC1=NC(N(C2=CC=CC(Cl)=C2)N=C3)=C3C(N1)=O)C(N)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Carlson DA, et al. ACS Chem Biol. 2013 Dec 20;8(12):2715-23. 2. MacDonald JA, et al. Mol Pharmacol. 2016 Jan;89(1):105-17.