

Product Name : HS56

Synonyms : Pim-DAPK3 inhibitor HS56

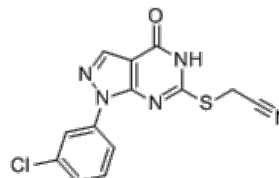
Cat No. : M16606

CAS Number : 922050-57-5

Molecular Formula : C₁₃H₈ClN₅O₂S

Formula Weight : 317.75

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



Description : HS56 (Pim-DAPK3 inhibitor HS56) is a potent, dual Pim/DAPK3 inhibitor with K_i of 72 nM (Pim-3) and 315 nM (DAPK3), shows micromolar potency toward Pim-1 and Pim-2 (K_i=1.5 and 17 uM); displays a high degree of selectivity for DAPKs and Pims against a panel of 468 kinases, with only two off-target interactions TYK2 and GAK; also displays no significant inhibition or activation of nicotinic, adrenergic, or muscarinic receptors at 10 uM; HS56 delayed force onset, decreased contractile force, and reduced LC20 phosphorylation in excised rat caudal arterial VSM tissues, lowers blood pressure in spontaneously hypertensive mice without affecting heart rate.

Pathway : JAK/STAT Signaling

Target : Pim

Receptor : Pim

Solubility : —

SMILES : N#CCSC1=NC(N(C2=CC=CC(Cl)=C2)N=C3)=C3C(N1)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Carlson DA, et al. Cell Chem Biol. 2018 Jul 4. pii: S2451-9456(18)30220-4.