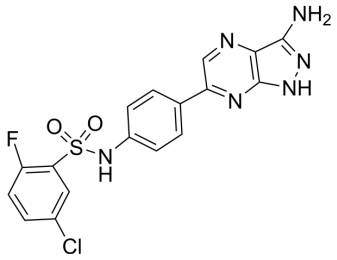
SGK1-IN-1

Cat. No.:	HY-18607
CAS No.:	1279829-87-6
Molecular Formula:	$C_{17}H_{12}ClFN_6O_2S$
Molecular Weight:	418.83
Target:	SGK
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (119.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3876 mL	11.9380 mL	23.8760 mL
	5 mM	0.4775 mL	2.3876 mL	4.7752 mL
	10 mM	0.2388 mL	1.1938 mL	2.3876 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SGK1-IN-1 is a highly active and selective inhibitor of SGK-1, with an IC_{50} of 1 nM.

IC_{50} & Target

SGK1

In Vitro

SGK1-IN-1 (14n) shows an acceptable SGK isoform selectivity with a good activity on hSGK2 and a moderate activity on the hSGK3, with IC_{50}s of 1, 41 nM at 10 μM and 50 μM ATP concentration, respectively. SGK1-IN-1 also displays cellular activity in a SGK1-dependent phosphorylation of GSK3β assay in U2OS cells with activities of 0.69 μM[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Food Chem Toxicol. 2023 Mar 25;113743.

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REFERENCES

[1]. ARYL SULFONOHYDRAZIDES. WO 2013041119 A1.

[2]. Halland N, et al. Discovery of N-[4-(1H-Pyrazolo[3,4-b]pyrazin-6-yl)-phenyl]-sulfonamides as Highly Active and Selective SGK1 Inhibitors. ACS Med Chem Lett. 2014 Oct 23;6(1):73-8.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA