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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

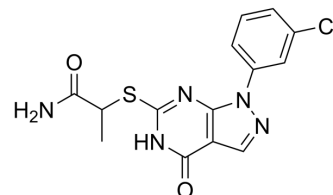
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HS38

Cat. No.:	HY-15847
CAS No.:	1030203-81-6
Molecular Formula:	C ₁₄ H ₁₂ ClN ₅ O ₂ S
Molecular Weight:	349.8
Target:	DAPK
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 7.14 mg/mL (20.41 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.8588 mL	14.2939 mL	28.5878 mL
	5 mM		0.5718 mL	2.8588 mL	5.7176 mL
	10 mM		0.2859 mL	1.4294 mL	2.8588 mL

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

BIOLOGICAL ACTIVITY

Description

HS38 is a potent, selective, and ATP-competitive inhibitor of death-associated protein kinase 1 (DAPK1) and zipper-interacting protein kinase (ZIPK, also called DAPK3), with K_ds of 300 nM and 280 nM, respectively. HS38 is also a PIM3 inhibitor with an IC₅₀ of 200 nM. HS38 can be used for the research of smooth muscle related disorders^[1].

IC₅₀ & Target

Kd: 300 nM (DAPK1), 79 nM (DAPK2), 280 nM (ZIPK), IC50: 200 nM (DAPK1), 200 nM (PIM3)^[1]

In Vitro

HS38 displays high affinity toward DAPK2, with a K_d of 79 nM. DAPK2 is not implicated in smooth muscle contractility^[1]. HS38 significantly reduces relative RLC20 phosphorylation in both the basal and sphingosine 1-phosphate (S1P) activated states in human aortic SM cells^[1]. HS38 reduces contractile forces generated by intact mouse aorta in aortic tissue^[1]. HS38 reduces the contractile force, RLC20 phosphorylation, and MYPT1 phosphorylation in Ca²⁺-sensitized rabbit ileum^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1]

Cell Line:	CA-VSMCs
Concentration:	10 μ M
Incubation Time:	40 minutes
Result:	Reduced relative RLC20 phosphorylation in both the basal and S1P activated states.

CUSTOMER VALIDATION

- Life Sci. 2023 Apr 1;121653.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. David A Carlson, et al. Fluorescence Linked Enzyme Chemoproteomic Strategy for Discovery of a Potent and Selective DAPK1 and ZIPK Inhibitor. ACS Chem Biol. 2013 Dec 20; 8(12): 2715–2723.

Caution: Product has not been fully validated for medical applications. For research use only.

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