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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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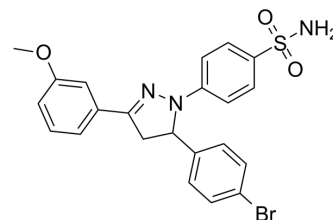
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CID44216842

Cat. No.:	HY-136379
CAS No.:	1222513-26-9
Molecular Formula:	C ₂₂ H ₂₀ BrN ₃ O ₃ S
Molecular Weight:	486.38
Target:	Ras
Pathway:	GPCR/G Protein; MAPK/ERK Pathway
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 : 250 mg/mL (514.00 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.0560 mL	10.2800 mL	20.5601 mL
		5 mM		0.4112 mL	2.0560 mL	4.1120 mL
		10 mM		0.2056 mL	1.0280 mL	2.0560 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: ≥ 2.08 mg/mL (4.28 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.28 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	CID44216842 (Cdc42-IN-1) is a potent Cdc42-selective guanine nucleotide binding lead inhibitor. The EC ₅₀ s for Cdc42 WT and Cdc42Q61L mutant are 1.0 and 1.2 μM in GTP binding assay, respectively. The EC ₅₀ s for Cdc42 WT and Cdc42Q61L mutant are 0.3 and 0.5 μM in GDP binding assay, respectively. Use as a molecular probe ^[1] .
IC ₅₀ & Target	EC ₅₀ : 1.0 μM (Cdc42 WT, in GTP binding assay) and 1.2 μM (Cdc42Q61L mutant, in GTP binding assay) ^[1] EC ₅₀ : 0.3 μM (Cdc42 WT, in GDP binding assay) and 0.5 μM (Cdc42Q61L mutant, in GDP binding assay) ^[1]
In Vitro	CID44216842 inhibits GTP binding to both Cdc42 and its mutant in a dose-dependent manner. The inhibition is specific toward Cdc42 with no effects on other GTPases including Rac and Rho in the same family ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lin Hong, et al. Characterization of a Cdc42 Protein Inhibitor and Its Use as a Molecular Probe. J Biol Chem. 2013 Mar 22;288(12):8531-43.

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

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