## CID44216842

Cat. No.:	HY-136379				
CAS No.:	1222513-26	-9			
Molecular Formula:	C <sub>22</sub> H <sub>20</sub> BrN <sub>3</sub> C	)₃S			
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		

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (514.00 mM; Need ultrasonic)					
Preparing Stock Solutio		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	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	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.28 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (4.28 mM); Clear solution</li> </ol>					

Description	CID44216842 (Cdc42-IN-1) is a potent Cdc42-selective guanine nucleotide binding lead inhibitor. The EC <sub>50</sub> s for Cdc42 WT and Cdc42Q61L mutant are 1.0 and 1.2 μM in GTP binding assay, respectively. The EC <sub>50</sub> s for Cdc42 WT and Cdc42Q61L mutant are 0.3 and 0.5 μM in GDP binding assay, respectively. Use as a molecular probe <sup>[1]</sup> .				
$IC_{50}$ & Target	EC50: 1.0 $\mu$ M (Cdc42 WT, in GTP binding assay) and 1.2 $\mu$ M (Cdc42Q61L mutant, in GTP binding assay) <sup>[1]</sup> EC50: 0.3 $\mu$ M (Cdc42 WT, in GDP binding assay) and 0.5 $\mu$ M (Cdc42Q61L mutant, in GDP binding assay) <sup>[1]</sup>				
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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

# Product Data Sheet

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### 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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