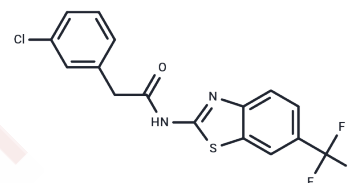


Casein kinase 1δ-IN-6

Chemical Properties

CAS No. :	1579991-01-7
Formula:	C ₁₆ H ₁₀ ClF ₃ N ₂ O ₅
Molecular Weight:	370.78
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Casein kinase 1δ-IN-6 is a potent and selective inhibitor of the protein kinase CK-1δ with an IC ₅₀ of 23 nM, demonstrating neuroprotective and anti-inflammatory activity in both in vitro and in vivo assays. Casein kinase 1δ-IN-6 can be used to study neurodegenerative diseases.
Targets(IC ₅₀)	Casein Kinase

Solubility Information

Solubility	DMSO: 55 mg/mL (148.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.697 mL	13.4851 mL	26.9702 mL
5 mM	0.5394 mL	2.697 mL	5.394 mL
10 mM	0.2697 mL	1.3485 mL	2.697 mL
50 mM	0.0539 mL	0.2697 mL	0.5394 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Morales-Garcia JA, et al. Biological and Pharmacological Characterization of Benzothiazole-Based CK-1δ Inhibitors in Models of Parkinson's Disease. ACS Omega. 2017;2(8):5215-5220.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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