

Casein kinase 1δ-IN-5

Chemical Properties

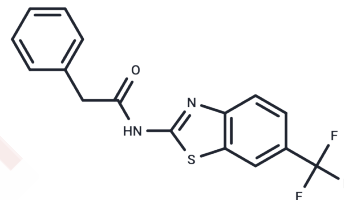
CAS No. : 1579991-10-8

Formula: C₁₆H₁₁F₃N₂O₂S

Molecular Weight: 336.33

Storage: Store at low temperature, Keep away from moisture
 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-5 is a potent and selective inhibitor of protein kinase CK1δ with an IC ₅₀ value of 47 nM, and it exhibits neuroprotective and anti-inflammatory properties in vitro, supporting its application as a mechanistic probe in neurodegenerative disease research, kinase signaling studies, and inflammation-related neurological disorder investigations.
Targets(IC ₅₀)	Casein Kinase
In vivo	Method: Casein kinase 1δ-IN-5 was evaluated in vitro in astrocyte and microglia cultures and in vivo in 6-OHDA-induced Parkinson's disease models and zebrafish toxicity assays. Result: Inhibitor 4 (IC ₅₀ = 23 nM) protected dopaminergic neurons, reduced LPS-induced inflammation, and showed no detectable toxicity[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9733 mL	14.8664 mL	29.7327 mL
5 mM	0.5947 mL	2.9733 mL	5.9465 mL
10 mM	0.2973 mL	1.4866 mL	2.9733 mL
50 mM	0.0595 mL	0.2973 mL	0.5947 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

José A Morales-Garcia, et al. Biological and Pharmacological Characterization of Benzothiazole-Based CK-1δ Inhibitors in Models of Parkinson's Disease. ACS Omega

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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