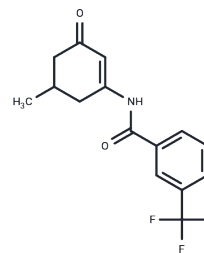


IAB15

Chemical Properties

CAS No. :	2987139-91-1
Formula:	C ₁₅ H ₁₄ F ₃ NO ₂
Molecular Weight:	297.27
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	IAB15 is a highly selective GSK-3beta inhibitor with dual potential in neuroregeneration and cell cycle regulation. It activates Wnt/beta-catenin signaling by blocking GSK-3beta, protecting dopaminergic neurons from apoptosis and exerting anti-proliferative effects on cancer cells.
Targets(IC50)	GSK-3
In vitro	IAB15 (50 uM) significantly reduces current density from T-type Ca ²⁺ channels in ND7/23 cells, showing selective inhibition [1].
In vivo	In epilepsy models, IAB15 shows anticonvulsant activity by modulating T-type Ca ²⁺ channel kinetics to suppress abnormal firing [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3639 mL	16.8197 mL	33.6395 mL
5 mM	0.6728 mL	3.3639 mL	6.7279 mL
10 mM	0.3364 mL	1.682 mL	3.3639 mL
50 mM	0.0673 mL	0.3364 mL	0.6728 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

Wolkenberg SE, Wisnoski DD, Leister WH, Wang Y, Zhao Z, Lindsley CW. Efficient synthesis of imidazoles from aldehydes and 1,2-diketones using microwave irradiation. Org Lett. 2004 Apr 29;6(9):1453-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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