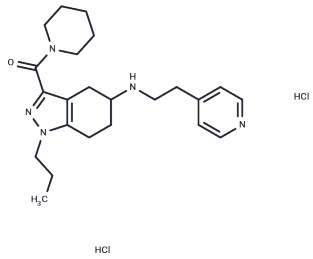
Data Sheet (Cat.No.T12269L)

TargetMol

NUCC-390 dihydrochloride (1060524-97-1 free base)

Chemical Properties



CAS No. :

Formula: C23H35Cl2N5O

Molecular Weight: 468.46

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	NUCC-390 dihydrochloride is selective agonist of small-molecule CXCR4 receptor.
Targets(IC50)	CXCR
In vitro	NUCC-390 dihydrochloride (10 μM;?pre-treatment 30 mins) leads to increased levels of pERK, it has the capability of stimulating signaling activity downstream of CXCR4 receptors[1].NUCC-390 (10 μM;?2 hours) can induce CXCR4 receptor internalization, and non-treated cells exhibit some diffuse expression of CXCR4-YFP throughout the cytosol and clear expression in the cell membrane in HEK cells[1].
In vivo	NUCC-390 dihydrochloride?contributes to the functional and anatomical recovery of the neuromuscular junction (NMJ) following an acute nerve terminal damage by α-LTx in CD-1 mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1347 mL	10.6733 mL	21.3465 mL
5 mM	0.4269 mL	2.1347 mL	4.2693 mL
10 mM	0.2135 mL	1.0673 mL	2.1347 mL
50 mM	0.0427 mL	0.2135 mL	0.4269 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

Mishra RK, et al. Discovery and characterization of novel small-molecule CXCR4 receptor agonists and antagonists. Sci Rep. 2016 Jul 26;6:30155.