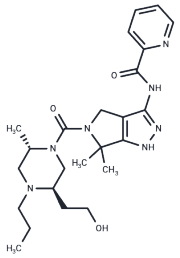
Data Sheet (Cat.No.T38461)

PF-03622905

Chemical Properties



CAS No. : 1072100-15-2

Formula: C24H35N7O3

Molecular Weight: 469.59

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	PF-03622905, a potent and ATP-competitive PKC inhibitor, exhibits IC50 values of 5.6 nM, 14.5 nM, 13 nM, 37.7 nM, and 74.1 nM for PKCα, PKCβI, PKCβII, PKCγ, and PKCθ, respectively. Notably, PF-03622905 demonstrates high specificity for PKC in comparison to other protein kinases.
Targets(IC50)	Others,Phosphatase,PKC
In vitro	PF-03622905 induces concentration-dependent suppression of phospho-ERK1/2 formation, interleukin-8 release, and phospho-SHP2 levels, exhibiting IC50 values of 0.15 μM, 0.16 μM, and 35 nM, respectively[1]. Additionally, at a concentration of 1 μM, PF-03622905 demonstrates minimal cytotoxicity towards human umbilical vein endothelial cells, maintaining 83.3% cell viability[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1295 mL	10.6476 mL	21.2952 mL
5 mM	0.4259 mL	2.1295 mL	4.259 mL
10 mM	0.213 mL	1.0648 mL	2.1295 mL
50 mM	0.0426 mL	0.213 mL	0.4259 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

Stephan Grant, et al. Discovery of a novel class of targeted kinase inhibitors that blocks protein kinase C signaling and ameliorates retinal vascular leakage in a diabetic rat model. Eur J Pharmacol. 2010 Feb 10;627(1-3):16-25.

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