

P2L-003

Chemical Properties

CAS No. :	1359416-20-8
Formula:	C ₂₃ H ₂₅ ClN ₄ O ₃ S
Molecular Weight:	472.99
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	P2L-003 is a selective PAR2 antagonist with an IC ₅₀ of 0.62 μM in HT-29 cells. It blocks PAR2-mediated Ca ²⁺ mobilization without affecting signaling through PAR1, PAR4, or ATP. P2L-003 dose-dependently inhibits downstream MAPK signaling cascades, including the phosphorylation of ERK1/2 and p38, and is applicable in colon cancer research.
Targets(IC ₅₀)	p38 MAPK,Protease Activated Receptor (PAR)
In vitro	P2L-003, at concentrations ranging from 0 to 30 μM over 24 hours, does not impair cell proliferation in HT-29 cells. Additionally, P2L-003 at concentrations of 3 to 30 μM over 24 hours effectively blocks PAR2-mediated Ca ²⁺ mobilization and inhibits downstream ERK1/2 and p38 signaling cascades in a concentration-dependent manner.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1142 mL	10.571 mL	21.1421 mL
5 mM	0.4228 mL	2.1142 mL	4.2284 mL
10 mM	0.2114 mL	1.0571 mL	2.1142 mL
50 mM	0.0423 mL	0.2114 mL	0.4228 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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