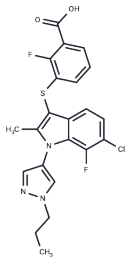
Data Sheet (Cat.No.T16434)

PAT-048

Chemical Properties



CAS No. : 1359983-15-5

Formula: C22H18ClF2N3O2S

Molecular Weight: 461.91

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	PAT-048 is an effective and selective autotaxin inhibitor. PAT-048 reduces dermal fibrosis in vivo. PAT-048 also inhibits IL-6 mRNA expression but displays no effect on autotaxin protein and pulmonary lysophosphatidic acid (LPA) production in the lung fibrosis model. PAT-048 has an IC50 and IC90 of 20 nM and 200 nM for autotaxin in mouse plasma.
Targets(IC50)	PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1649 mL	10.8246 mL	21.6492 mL
5 mM	0.433 mL	2.1649 mL	4.3298 mL
10 mM	0.2165 mL	1.0825 mL	2.1649 mL
50 mM	0.0433 mL	0.2165 mL	0.433 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

Castelino FV, et al. An Autotaxin/Lysophosphatidic Acid/Interleukin-6 Amplification Loop Drives Scleroderma Fibrosis. Arthritis Rheumatol. 2016 Dec;68(12):2964-2974.
Black KE, et al. Autotaxin activity increases locally following lung injury, but is not required for pulmonary lysophosphatidic acid production or fibrosis. FASEB J. 2016 Jun;30(6):2435-50.

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