
Product Data Sheet

Product Name: PAT-048
Cat. No.: GC36859

Chemical Properties

Cas. No. 1359983-15-5

SMILES CCCN1N=CC(N2C3=C(C(SC4=CC=CC(C(O)=O)=C4F)=C2C)C=CC(Cl)=C3F)=C1

Formula $C_{22}H_{18}ClF_2N_3O_2S$ M.Wt 461.91

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with Condition RT , or blue ice upon request.

Structure

Background

PAT-048 is a potent, selective and orally active autotaxin inhibitor, inhibits IL-6 mRNA expression, but shows no effect on autotaxin protein and pulmonary lysophosphatidic acid (LPA) production in lung fibrosis model. PAT-048 shows an IC50 and IC90 of 20 nM and 200 nM for autotaxin in mouse plasma. PAT-048 reduces dermal fibrosis in vivo[1][2]. IC50: 20 nM (Autotaxin, in mouse plasma)[1] IC90: 200 nM (Autotaxin, in mouse plasma)[1]

[1]. Castelino FV, et al. An Autotaxin/Lysophosphatidic Acid/Interleukin-6 Amplification Loop Drives Scleroderma Fibrosis. *Arthritis Rheumatol.* 2016 Dec;68(12):2964-2974. [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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