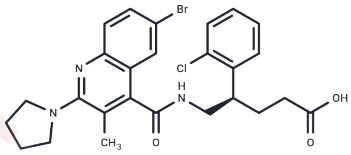
Data Sheet (Cat.No.T39760)

TargetMol

BAY-6672

Chemical Properties



CAS No. : 2247517-53-7

Formula: C26H27BrClN3O3

Molecular Weight: 544.87

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	BAY-6672 is a selective human prostaglandin F (FP) receptor antagonist that is highly potent (IC50=11 nM), orally available and well permeable. It exerts antifibrotic effects by inhibiting prostaglandin F2α ($PGF_2α$) activity through antagonizing the FP receptor, and has in vivo efficacy in animal models of idiopathic pulmonary fibrosis (IPF).
Targets(IC50)	Prostaglandin Receptor
In vivo	**Methods**: Anti-fibrotic activity of BAY-6672 (3, 10, 30 mg/kg, twice daily) in a 10-day silica-induced pulmonary fibrosis model in mice. **Results**: Significant reductions in relevant profibrotic and inflammatory biomarkers, including the cytokines IL-1 and MCP-1, and the ECM protein osteopontin (OPN), were observed.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8353 mL	9.1765 mL	18.353 mL
5 mM	0.3671 mL	1.8353 mL	3.6706 mL
10 mM	0.1835 mL	0.9177 mL	1.8353 mL
50 mM	0.0367 mL	0.1835 mL	0.3671 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

Beck H, et al. Potent and Selective Human Prostaglandin F (FP) Receptor Antagonist (BAY-6672) for the Treatment of Idiopathic Pulmonary Fibrosis (IPF). J Med Chem. 2020 Oct 22;63(20):11639-11662.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481