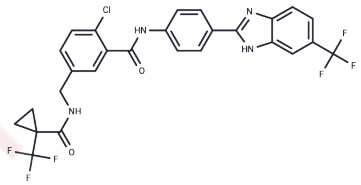
Data Sheet (Cat.No.T203185)

TargetMol

AGU654

Chemical Properties



CAS No. : 3038861-74-1

Formula: C27H19ClF6N4O2

Molecular Weight: 580.91

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	AGU654 (Compound 44) is a selective mPGES-1 inhibitor with an IC50 value of 2.9 nM against mPGES-1. By inhibiting mPGES-1, AGU654 interrupts the pathway where COX-1/2 converts arachidonic acid to prostaglandin E2 (PGE2), effectively reducing inflammatory responses, pain, and fever symptoms. In models using activated human monocyte-derived macrophages and whole blood, AGU654 selectively inhibits PGE2 production induced by bacterial endotoxins, while preserving the production of other prostaglandins. In guinea pig models, AGU654 significantly alleviates fever, inflammation, and inflammatory pain, demonstrating excellent anti-inflammatory, analgesic, and antipyretic effects. AGU654 holds promise as a new approach for researching inflammatory diseases and pain.
Targets(IC50)	PGE Synthase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7214 mL	8.6072 mL	17.2144 mL
5 mM	0.3443 mL	1.7214 mL	3.4429 mL
10 mM	0.1721 mL	0.8607 mL	1.7214 mL
50 mM	0.0344 mL	0.1721 mL	0.3443 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

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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