

AZD 4407

Chemical Properties

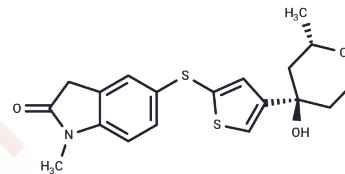
CAS No. : 166882-70-8

Formula: C₁₉H₂₁NO₃S₂

Molecular Weight: 375.5

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	AZD 4407 is a potent inhibitor of 5-lipoxygenase.
Targets(IC50)	Lipoxygenase
In vitro	Given the potent spasmogenic effects of leukotrienes in vascular and bronchial tissues, AZD 4407 (ZD4407) inhibits their biosynthesis by blocking 5-lipoxygenase, potentially offering therapeutic benefits for inflammatory conditions such as inflammatory arthropathies, asthma, psoriasis, and inflammatory bowel disease.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6631 mL	13.3156 mL	26.6312 mL
5 mM	0.5326 mL	2.6631 mL	5.3262 mL
10 mM	0.2663 mL	1.3316 mL	2.6631 mL
50 mM	0.0533 mL	0.2663 mL	0.5326 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

Jonathan Hutton, et al. Use of a Titanium Thienyl Anion and a Simple Procedure for Introducing a Thiol Group into Thiophene in the Development of a Manufacturing Route to the 5-Lipoxygenase Inhibitor ZD4407. Org Process Res Dev. 1997 Jan 15;1(1): 61-67.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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