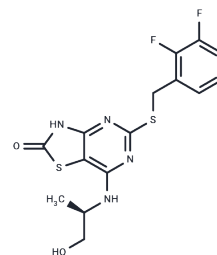


AZD8309

Chemical Properties

CAS No. : 333742-48-6
 Formula: C₁₅H₁₄F₂N₄O₂S₂
 Molecular Weight: 384.42
 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	AZD8309 is a potent, orally available antagonist of the chemokine receptor CXCR2 that regulates neutrophil transport, significantly reduces MPO in the pancreas and lung, and decreases trypsin and elastase activity in the pancreas. AZD8309 can be used to study a range of inflammatory diseases.
Targets(IC50)	Glutathione Peroxidase, CXCR
In vivo	Oral administration of AZD8309 (50 mg/kg) reduced neutrophil migration and pancreatic protease activation in experimental pancreatitis in mice.[1]

Solubility Information

Solubility	DMSO: 65 mg/mL (169.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6013 mL	13.0066 mL	26.0132 mL
5 mM	0.5203 mL	2.6013 mL	5.2026 mL
10 mM	0.2601 mL	1.3007 mL	2.6013 mL
50 mM	0.052 mL	0.2601 mL	0.5203 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

Malla SR, et al. Effect of oral administration of AZD8309, a CXCR2 antagonist, on the severity of experimental pancreatitis. *Pancreatology*. 2016;16(5):761-769.

Leaker BR, et al. Inhibition of LPS-induced airway neutrophilic inflammation in healthy volunteers with an oral CXCR2 antagonist. *Respir Res*. 2013;14:137.

Virtala R, et al. Airway inflammation evaluated in a human nasal lipopolysaccharide challenge model by investigating the effect of a CXCR2 inhibitor. *Clin Exp Allergy*. 2012;42(4):590-596.

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