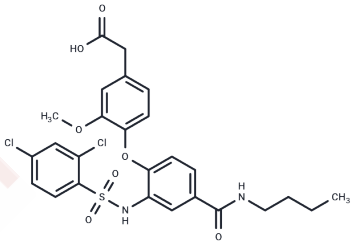
Data Sheet (Cat.No.T14211)

TargetMol

AMG-009

Chemical Properties



CAS No. : 1027847-67-1

Formula: C26H26Cl2N2O7S

Molecular Weight: 581.47

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	AMG-009 is a selective and potent dual antagonist of CRTH2 and DP, with an IC50 value of 3 nM for CRTH2 and 12 nM for DP receptors.
Targets(IC50)	GPCR,Prostaglandin Receptor
In vitro	AMG-009 inhibits PGD2-induced down-modulation of CRTH2 on CD16 negative eosinophils in human whole blood with a Ki of 1 nM[1].
In vivo	AMG 009 (3, 10, or 30 mg/kg, s.c.) dose-dependently decreases PGD2 aerosol-induced airway resistance and significantly enhances DP potency (Kb of 82 nM) in an acute guinea pig model[1][2].

Solubility Information

Solubility	DMSO: 100 mg/mL (171.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7198 mL	8.5989 mL	17.1978 mL
5 mM	0.344 mL	1.7198 mL	3.4396 mL
10 mM	0.172 mL	0.8599 mL	1.7198 mL
50 mM	0.0344 mL	0.172 mL	0.344 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

Liu J, et al. Discovery and optimization of CRTH2 and DP dual antagonists. Bioorg Med Chem Lett. 2009 Nov 15;19 (22):6419-23.
Liu J, et al. Discovery of AMG 853, a CRTH2 and DP Dual Antagonist. ACS Med Chem Lett. 2011 Mar 2;2(5):326-30.
Johnson MG, et al. Solving time-dependent CYP3A4 inhibition for a series of indole-phenylacetic acid dual antagonists of the PGD(2) receptors CRTH2 and DP. Bioorg Med Chem Lett. 2014 Jul 1;24(13):2877-80.