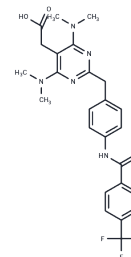


BI-671800

## Chemical Properties

CAS No. : 1093108-50-9  
 Formula: C<sub>25</sub>H<sub>26</sub>F<sub>3</sub>N<sub>5</sub>O<sub>3</sub>  
 Molecular Weight: 501.5  
 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	BI-671800 (AP-761) is a highly specific and potent antagonist of chemoattractant receptor-homologous molecule on Th2 cells (DP2/CRTH2). With IC <sub>50</sub> values of 4.5 nM and 3.7 nM for PGD <sub>2</sub> binding to CRTH2 in hCRTH2 and mCRTH2 transfected cells, respectively. BI-671800 has the potential to treat poorly controlled asthma[2].
Targets(IC <sub>50</sub> )	GPCR, Prostaglandin Receptor
In vitro	BI-671800 (compound A) is a potent small-molecule antagonist with low nanomolar potency against human or mouse CRTH2 in transfected cells[1].
In vivo	BI-671800 (compound A, 0.1-10 mg/kg, i.g.) significantly inhibits AHR in mice[1] and effectively prevents edema formation, reduces inflammatory infiltrate, and alleviates skin pathology observed in drug vehicle-treated animals[3].

## Solubility Information

Solubility	DMSO: 130 mg/mL (259.22 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	1.994 mL	9.9701 mL	19.9402 mL
5 mM	0.3988 mL	1.994 mL	3.988 mL
10 mM	0.1994 mL	0.997 mL	1.994 mL
50 mM	0.0399 mL	0.1994 mL	0.3988 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

Boehme SA, et al. A small molecule CRTH2 antagonist inhibits FITC-induced allergic cutaneous inflammation. *Int Immunol.* 2009 Jan;21(1):81-93.

Miller D, et al. A randomized study of BI 671800, a CRTH2 antagonist, as add-on therapy in poorly controlled asthma. *Allergy Asthma Proc.* 2017 Mar 1;38(2):157-164.

Lukacs NW, et al. CRTH2 antagonism significantly ameliorates airway hyperreactivity and downregulates inflammation-induced genes in a mouse model of airway inflammation. *Am J Physiol Lung Cell Mol Physiol.* 2008 Nov;295(5):L767-79.

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