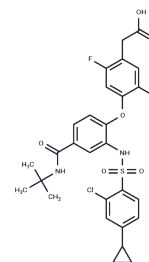


Vidupiprant

Chemical Properties

CAS No. :	1169483-24-2
Formula:	C ₂₈ H ₂₇ Cl ₂ FN ₂ O ₆ S
Molecular Weight:	609.49
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	Vidupiprant (AMG 853) is an effective dual antagonist of CRTH2 and prostanoid D receptor with IC ₅₀ s of 8 nM and 35 nM in human plasma. Vidupiprant can be used in studies about the treatment of asthma.
Targets(IC ₅₀)	Prostaglandin Receptor
In vitro	Vidupiprant inhibits prostaglandin D ₂ -induced cAMP response in platelets in 80% human whole blood with a Kb of 4.7 nM. Vidupiprant inhibits the prostaglandin D ₂ - induced down-modulation of CRTH2 on CD16 negative granulocytes in human whole blood with a Kb of 0.2 nM. Vidupiprant demonstrates antagonist activity in an aequorin assay using CRTH2-transfected HEK 293 cells and an eosinophil shape change assay[1].
In vivo	In a guinea pig model of PGD ₂ -induced airway constriction, airway resistance is measured in response to PGD ₂ challenge. Vidupiprant has a Kb of 5 nM[1].

Solubility Information

Solubility	DMSO: 95 mg/mL (155.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (5.41 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6407 mL	8.2036 mL	16.4072 mL
5 mM	0.3281 mL	1.6407 mL	3.2814 mL
10 mM	0.1641 mL	0.8204 mL	1.6407 mL
50 mM	0.0328 mL	0.1641 mL	0.3281 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 of AMG 853, a CRTH2 and DP Dual Antagonist. ACS Med Chem Lett. 2011 Mar 2;2(5):326-30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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