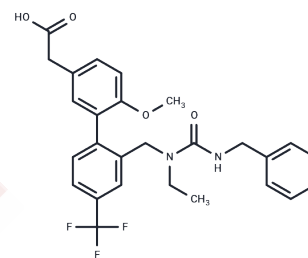


AM211

Chemical Properties

CAS No. :	1175526-27-8
Formula:	C ₂₇ H ₂₇ F ₃ N ₂ O ₄
Molecular Weight:	500.51
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	AM211 (AM211 free acid) is a potent and orally bioavailable antagonist of prostaglandin D ₂ (PGD ₂) receptor type 2 (DP ₂)
Targets(IC ₅₀)	Prostaglandin Receptor
In vivo	AM211 exhibits good oral bioavailability in rats and dogs and dose-dependently inhibits 13,14-dihydro-15-keto-PGD(2)-induced leukocytosis in a guinea pig pharmacodynamic assay. AM211 demonstrates efficacy in two animal models of allergic inflammation, including an ovalbumin-induced lung inflammation model in guinea pigs and an ovalbumin-induced mouse model of allergic rhinitis. AM211 represents a potent and selective antagonist of DP ₂ that may be used clinically to evaluate the role of DP ₂ in T helper 2-driven allergic inflammatory diseases[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (249.75 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.99 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	1.998 mL	9.9898 mL	19.9796 mL
5 mM	0.3996 mL	1.998 mL	3.9959 mL
10 mM	0.1998 mL	0.999 mL	1.998 mL
50 mM	0.040 mL	0.1998 mL	0.3996 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

Bain G , Lorrain D S , Stebbins K J , et al. Pharmacology of AM211, a Potent and Selective Prostaglandin D2 Receptor Type 2 Antagonist That Is Active in Animal Models of Allergic Inflammation[J]. Journal of Pharmacology and Experimental Therapeutics, 2011, 338(1):290-301.

Bain G , King C D , Brittain J , et al. Pharmacodynamics, Pharmacokinetics, and Safety of AM211: A Novel and Potent Antagonist of the Prostaglandin D2 Receptor Type 2[J]. The Journal of Clinical Pharmacology, 2012, 52(10).

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