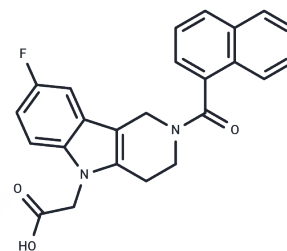


Setiprant

Chemical Properties

CAS No. :	866460-33-5
Formula:	C ₂₄ H ₁₉ FN ₂ O ₃
Molecular Weight:	402.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Setiprant (ACT-129968) is an orally available, selective CRTH2 antagonist (IC ₅₀ : 6.0 nM). CRTH2, a G protein-coupled receptor for prostaglandin (PGD ₂), mediates key inflammatory responses related to allergy and asthma. PGD ₂ , produced by mast cells, binds to CRTH2 on blood-borne cells, inducing chemotaxis of Th2 cells, basophils, and eosinophils, and stimulating cytokine release.
Targets(IC ₅₀)	GPCR, Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 45 mg/mL (111.82 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: 2 mg/mL (4.97 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	2.485 mL	12.4248 mL	24.8497 mL
5 mM	0.497 mL	2.485 mL	4.9699 mL
10 mM	0.2485 mL	1.2425 mL	2.485 mL
50 mM	0.0497 mL	0.2485 mL	0.497 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

Diamant Z., et al. Setipirant, a selective CRTH2 antagonist, reduces allergen-induced airway responses in allergic asthmatics. Clin Exp Allergy. 2014 Aug;44(8):1044-52.

Hoch M., et al. Disposition and metabolism of setipirant, a selective oral CRTH2 antagonist, in humans. Drugs R D. 2013 Dec;13(4):253-69.

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