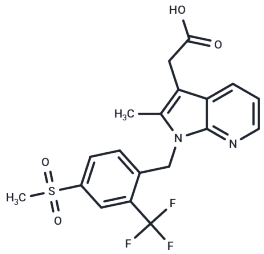
Data Sheet (Cat.No.T3965)

TargetMol

Fevipiprant

Chemical Properties



CAS No. : 872365-14-5

Formula: C19H17F3N2O4S

Molecular Weight: 426.41

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	Fevipiprant (NVP-QAW039) is a selective, potent, reversible competitive CRTh2 antagonist.
Targets(IC50)	GPCR,Prostaglandin Receptor
In vitro	CRTh2-mediated shape change in eosinophils was used to profile QAW039 in whole blood and represents a physiologically relevant environment. The comparable IC50 values for QAW039 in the whole blood and isolated shape-change assays are consistent with its lower plasma-protein binding and its relatively slow dissociation kinetics that drive its increased potency .QAW039 is highly potent in whole-blood systems, with the IC50 value obtained consistent with the affinity values calculated from radioligand experiments. In a further disease-relevant cellular context, the potency of QAW039 in the isolated Th2 cell cytokine inhibition assay is consistent with its CRTh2 receptor affinity, and, as with eosinophil assay readouts, this represents an improved potency compared with QAV680.[

Solubility Information

Solubility	DMSO: 60 mg/mL (140.71 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 (4.69 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3452 mL	11.7258 mL	23.4516 mL
5 mM	0.469 mL	2.3452 mL	4.6903 mL
10 mM	0.2345 mL	1.1726 mL	2.3452 mL
50 mM	0.0469 mL	0.2345 mL	0.469 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

Sykes DA, et al. Fevipiprant (QAW039), a Slowly Dissociating CRTh2 Antagonist with the Potential for Improved Clinical Efficacy. Mol Pharmacol. 2016 May;89(5):593-605.
Erpenbeck VJ, rt al. Pharmacokinetics, Safety, and Tolerability of Fevipiprant (QAW039), a Novel CRTh2 Receptor Antagonist: Results From 2 Randomized, Phase 1, Placebo-Controlled Studies in Healthy Volunteers. Clin Pharmacol Drug Dev. 2016 Jul;5(4):306-13.