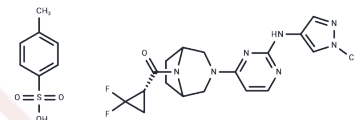


Breprocitinib P-Tosylate

Chemical Properties

CAS No. : 2140301-96-6
 Formula: C₂₅H₂₉F₂N₇O₄S
 Molecular Weight: 561.6
 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	Breprocitinib P-Tosylate (PF-06700841 P-Tosylate) is a potent dual inhibitor of Janus kinase 1 (JAK1) and TYK2 (IC ₅₀ s of 17 nM and 23 nM, respectively).
Targets(IC ₅₀)	JAK
In vitro	PF-06700841 has good potency against IL6/pStat1 in the CD3 ⁺ cellular subset (IC ₅₀ of 81 nM), but lower inhibition of IL6/pSTAT3, again in the CD3 ⁺ cellular subset (IC ₅₀ of 641 nM).
In vivo	PF-06700841 (oral administration; for 7 consecutive days; female Lewis rats) treatment significantly reduces paw volume increase in a dose-dependent manner[1].

Solubility Information

Solubility	DMSO: 23.33 mg/mL (41.54 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 (3.56 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	1.7806 mL	8.9031 mL	17.8063 mL
5 mM	0.3561 mL	1.7806 mL	3.5613 mL
10 mM	0.1781 mL	0.8903 mL	1.7806 mL
50 mM	0.0356 mL	0.1781 mL	0.3561 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

Fensome A, et al. Dual Inhibition of TYK2 and JAK1 for the Treatment of Autoimmune Diseases: Discovery of ((S)-2,2-Difluorocyclopropyl)((1R,5S)-3-(2-((1-methyl-1H-pyrazol-4-yl)amino)pyrimidin-4-yl)-3,8-diazabicyclo[3.2.1]octan-8-yl)methanone (PF-06700841). *J Med Chem.* 2018 Oct 11;61(19):8597-8612.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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