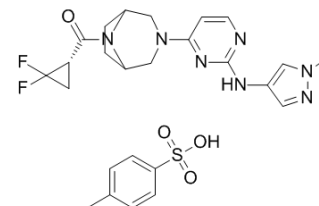


## PF-06700841 P-Tosylate

Cat. No.:	HY-112708A
CAS No.:	2140301-96-6
Molecular Formula:	C <sub>25</sub> H <sub>29</sub> F <sub>2</sub> N <sub>7</sub> O <sub>4</sub> S
Molecular Weight:	561.6
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the COA.



### Solvent & Solubility

In Vitro	DMSO : 62.5 mg/mL (111.29 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: <b>10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</b> Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution						
	2. Add each solvent one by one: <b>10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline</b> Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution						
	3. Add each solvent one by one: <b>10% DMSO &gt;&gt; 90% corn oil</b> Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	PF-06700841 P-Tosylate is a dual JAK1 and TYK2 inhibitor with IC <sub>50</sub> s of 17 and 23 nM, respectively. Anti-inflammatory activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 17 nM (JAK1), 23 nM (TYK2) <sup>[1]</sup>

### REFERENCES

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[1]. 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.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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