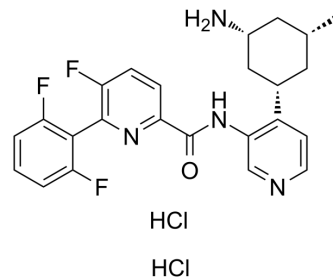


## (1S,3R,5R)-PIM447 dihydrochloride

<b>Cat. No.:</b>	HY-19322C
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>25</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>4</sub> O
<b>Molecular Weight:</b>	513.38
<b>Target:</b>	Pim
<b>Pathway:</b>	JAK/STAT Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 33.33 mg/mL (64.92 mM; Need ultrasonic)					
	H <sub>2</sub> O : 12.5 mg/mL (24.35 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.9479 mL	9.7394 mL	19.4787 mL
<b>5 mM</b>			0.3896 mL	1.9479 mL	3.8957 mL	
	<b>10 mM</b>		0.1948 mL	0.9739 mL	1.9479 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.75 mg/mL (5.36 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.75 mg/mL (5.36 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.75 mg/mL (5.36 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(1S,3R,5R)-PIM447 (dihydrochloride) an PIM inhibitor extracted from patent US 20100056576 A1, compound example 72, has IC <sub>50</sub> values of 0.095 μM for Pim1, 0.522 μM for Pim2 and 0.369 μM for Pim3.
<b>IC<sub>50</sub> &amp; Target</b>	IC50: 0.095 μM (Pim1), 0.52 μM (Pim1), 0.369 μM (Pim1)

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA