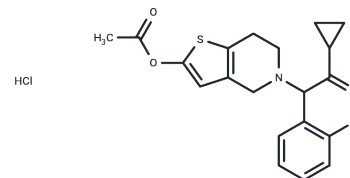


Prasugrel Hydrochloride

Chemical Properties

CAS No. : 389574-19-0
 Formula: C₂₀H₂₀FN₃O₃·HCl
 Molecular Weight: 409.9
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Prasugrel Hydrochloride (LY 640315 Hydrochloride) is a piperazine derivative and platelet aggregation inhibitor that is used to prevent thrombosis in patients with acute coronary syndrome.
Targets(IC ₅₀)	P2Y Receptor
In vivo	Prasugrel significantly inhibits arterio-venous (AV) shunt and electrically induced arterial thrombosis in single dose ranges of 0.3 to 3 mg/kg and of 0.3 and 1 mg/kg/day for multiple doses. These doses are similar to doses with inhibition of platelet activation via P2Y ₁₂ receptors, suggesting that the protective effects of prasugrel in these cerebral infarction and peripheral arterial occlusive disease models reflect P2Y ₁₂ inhibitions on platelets by prasugrel's active metabolite. Prasugrel also significantly prevents progression of peripheral vascular lesions[1].

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 43 mg/mL (104.9 mM), Ethanol: 9 mg/mL (21.95 mM), < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4396 mL	12.1981 mL	24.3962 mL
5 mM	0.4879 mL	2.4396 mL	4.8792 mL
10 mM	0.244 mL	1.2198 mL	2.4396 mL
50 mM	0.0488 mL	0.244 mL	0.4879 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.

Reference

Ogawa T, et al. Eur J Pharmacol. 2009, 612(1-3):29-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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