

Prasugrel (Maleic acid)

Chemical Properties

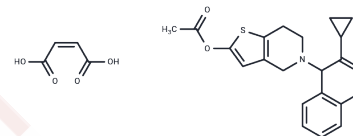
CAS No. : 389574-20-3

Formula: C₂₄H₂₄FNO₇S

Molecular Weight: 489.51

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	Prasugrel Maleic acid is an orally active and potent P2Y ₁₂ receptor antagonist and inhibits ADP-induced platelet aggregation. Prasugrel Maleic acid is a thienopyridine and prodrug. Prasugrel Maleic acid also inhibits platelet function.
Targets(IC ₅₀)	P2Y Receptor
In vitro	Prasugrel hydrochloride is an inactive prodrug that requires metabolic processing in vivo to generate the active antiplatelet metabolite. Prasugrel Maleic acid is rapidly absorbed from the gut. Prasugrel Maleic acid active metabolite inhibits in vitro platelet aggregation induced by adenosine ADP (10 μM) (IC ₅₀ : 1.8 μM), in rat platelets. Prasugrel Maleic acid acts faster and is significantly more effective than Clopidogrel in vivo. After oral administration of standard-loading doses of 60 mg, maximum plasma levels of the active metabolite are achieved within 1 h, effective, maximum inhibition of platelet aggregation at 1-2 h[1][2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0429 mL	10.2143 mL	20.4286 mL
5 mM	0.4086 mL	2.0429 mL	4.0857 mL
10 mM	0.2043 mL	1.0214 mL	2.0429 mL
50 mM	0.0409 mL	0.2043 mL	0.4086 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

Wijeyeratne YD, et al. Anti-platelet therapy: ADP receptor antagonists. Br J Clin Pharmacol. 2011 Oct;72(4):647-57.
Sugidachi A, et al. The greater in vivo antiplatelet effects of prasugrel as compared to clopidogrel reflect more efficient generation of its active metabolite with similar antiplatelet activity to that of clopidogrel's active metabolite. J Thromb Haemost. 2007 Jul;5(7):1545-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481