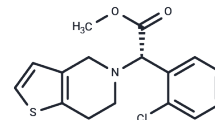
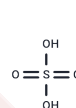


Clopidogrel hydrogen sulfate

Chemical Properties

CAS No. :	120202-66-6
Formula:	C ₁₆ H ₁₆ ClNO ₂ S·H ₂ SO ₄
Molecular Weight:	419.9
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	Clopidogrel hydrogen sulfate ((S)-(+)-Clopidogrel bisulfate) , a selective, high-affinity P2Y ₁₂ receptor antagonist, suppresses fibrinogen binding to platelets and platelet adhesion and aggregation.
Targets(IC ₅₀)	Cytochromes P450,P2Y Receptor
In vitro	In a rat model of ulcer margins, daily administration of Clopidogrel (2 mg and 10 mg/kg) significantly reduced the proliferation of gastric epithelial cells induced by ulcers, as well as the expression of the EGF receptor and phosphorylated extracellular signal-regulated kinase. In rats with congestive heart failure, Clopidogrel enhanced the phosphorylation of AKT and eNOS, thereby improving vascular endothelial function and the bioavailability of nitric oxide.
In vivo	In RGM-1 cells, Clopidogrel (1 μM) inhibits the epidermal growth factor-induced activation of epidermal growth factor receptor, PERK expression, and cellular proliferation.

Solubility Information

Solubility	DMSO: 250 mg/mL (595.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (23.82 mM),Solution. <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	2.3815 mL	11.9076 mL	23.8152 mL
5 mM	0.4763 mL	2.3815 mL	4.763 mL
10 mM	0.2382 mL	1.1908 mL	2.3815 mL
50 mM	0.0476 mL	0.2382 mL	0.4763 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

- Laine L, et al. Am J Gastroenterol, 2010, 105(1), 34-41.
- Luo JC, et al. Eur J Pharmacol, 2012, 695(1-3), 112-119.
- Coimbra LS, et al. J Clin Periodontol, 2014, 41(3), 295-302.
- Schäfer A, et al. Basic Res Cardiol. 2011 May;106(3):485-94.
- Herbert JM, et al. Thromb Haemost, 1998, 80(3), 512-518.

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