

Camonagrel

Chemical Properties

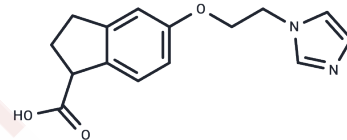
CAS No. : 105920-77-2

Formula: C₁₅H₁₆N₂O₃

Molecular Weight: 272.3

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	Camonagrel is a compound with inhibitory effects on Prostaglandin E ₂ (PGE ₂).
Targets(IC ₅₀)	Prostaglandin Receptor
In vivo	In cats camonagrel (10 mg/kg i.v.) produced not only a fall in TXB ₂ but also a rise in 6-keto-PGF ₁ alpha and no change in cyclic-GMP plasma levels.[1] camonagrel (800 mg orally) suppressed TXA ₂ generation by 99.5% and doubled the plasma level of 6-keto-PGF ₁ alpha.[1] The greatest reduction in percentage subendothelial surface occupied by platelets (mainly in the thrombi) after blood perfusion was seen after incubation with camonagrel in the range of concentrations that inhibited collagen-induced platelet aggregation. In conclusion, camonagrel reduced platelet-subendothelium interaction under flow conditions, showing this effect in a range of concentrations lower than in inhibition of platelet aggregation.[2]

Solubility Information

Solubility	DMSO: 20 mg/mL (73.45 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6724 mL	18.3621 mL	36.7242 mL
5 mM	0.7345 mL	3.6724 mL	7.3448 mL
10 mM	0.3672 mL	1.8362 mL	3.6724 mL
50 mM	0.0734 mL	0.3672 mL	0.7345 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

Gryglewski RJ, et al. The mechanism of anti-thrombotic, thrombolytic and fibrinolytic actions of camonagrel--a new thromboxane synthase inhibitor. *Wien Klin Wochenschr.* 1995;107(9):283-289.

Villalobos MA, et al. Effects of camonagrel, a selective inhibitor of platelet thromboxane synthase, on the platelet-subendothelium interaction. *Pharmacology.* 2003;69(1):44-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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