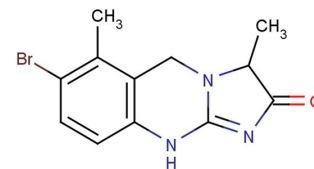


Ro-15-2041

Chemical Properties

CAS No.:	77448-87-4
Formula:	C ₁₂ H ₁₂ BrN ₃ O
Molecular Weight:	294.15
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ro 15-2041 is a selective inhibitor of platelet phosphodiesterase, with antithrombotic properties.
Targets(IC ₅₀)	phosphodiesterase: None
In vitro	Ro 15-2041 inhibits platelet aggregation induced by all common platelet agonists in platelet-rich plasma obtained from various species including man with IC ₅₀ of 1-3 μ M. It potentiates platelet inhibition by prostacyclin, the prostacyclin-induced increase of intraplatelet cyclic (c) AMP levels and inhibits the collagen-induced release of serotonin and beta-thromboglobulin. Ro 15-2041 reduces the increase and accelerated the normalization of cytosolic free Ca ²⁺ in thrombin-stimulated human platelets. Ro 15-2041 is a potent (IC ₅₀ =70 nM) and selective inhibitor of platelet cAMP-phosphodiesterase activity.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4 mL	16.998 mL	33.996 mL
5 mM	0.68 mL	3.4 mL	6.799 mL
10 mM	0.34 mL	1.7 mL	3.4 mL
50 mM	0.068 mL	0.34 mL	0.68 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Muggli R, et al. 7-Bromo-1,5-dihydro-3,6-dimethylimidazo[2,1-b]quinazolin-2(3H)- one (Ro 15-2041), a potent antithrombotic agent that selectively inhibits platelet cyclic AMP-phosphodiesterase. J Pharmacol Exp Ther. 1985 Oct;235(1):212-9.

Inhibitors · Natural Compounds · Compound Libraries

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