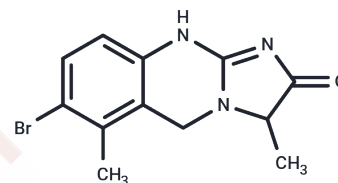


Ro-15-2041

Chemical Properties

CAS No. : 77448-87-4
 Formula: C₁₂H₁₂BrN₃O
 Molecular Weight: 294.15
 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	Ro 15-2041, a selective inhibitor of platelet phosphodiesterase, exhibits notable antithrombotic properties.
Targets(IC50)	Others,PDE
In vitro	Ro 15-2041 inhibits platelet aggregation induced by common agonists in platelet-rich plasma from various species, including humans, with an IC ₅₀ of 1-3 μM. It enhances prostacyclin-induced platelet inhibition, increases (c) AMP levels, and inhibits collagen-induced release of serotonin and beta-thromboglobulin. It also reduces and normalizes cytosolic free Ca ²⁺ levels in thrombin-stimulated human platelets. Ro 15-2041 is a potent (IC ₅₀ = 70 nM) and selective inhibitor of platelet cAMP-phosphodiesterase activity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3996 mL	16.9981 mL	33.9963 mL
5 mM	0.6799 mL	3.3996 mL	6.7993 mL
10 mM	0.340 mL	1.6998 mL	3.3996 mL
50 mM	0.068 mL	0.340 mL	0.6799 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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