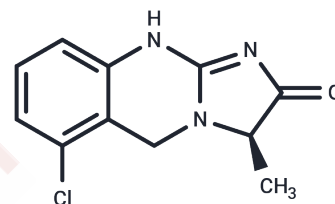


Quazinone

Chemical Properties

CAS No. :	70018-51-8
Formula:	C ₁₁ H ₁₀ ClN ₃ O
Molecular Weight:	235.67
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	Quazinone is a selective inhibitor of phosphodiesterase 3 (PDE3) with positive inotropic and vasodilating properties. It induces relaxation of precontracted isolated human cavernous smooth muscle (IC ₅₀ = 4.2 μM), increases myocardial contractile force in anesthetized open-chest dogs in a dose-dependent manner (10-300 μg/kg), decreases systolic and diastolic blood pressure, and inhibits DNA synthesis induced by the PDGF isoform PDGF-BB in bovine coronary artery smooth muscle cells in a concentration-dependent manner.
Targets(IC ₅₀)	Others,MAPK,PDE

Solubility Information

Solubility	Ethanol: 1 mg/mL (4.24 mM),Sonication is recommended. DMSO: 5 mg/mL (21.22 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	4.2432 mL	21.2161 mL	42.4322 mL
5 mM	0.8486 mL	4.2432 mL	8.4864 mL
10 mM	0.4243 mL	2.1216 mL	4.2432 mL
50 mM	0.0849 mL	0.4243 mL	0.8486 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

- Taher, A., Meyer, M., Stief, C.G., et al. Cyclic nucleotide phosphodiesterase in human cavernous smooth muscle. *World J. Urol.* 15(1), 32-35 (1997).
- Eigenmann, R., Gerold, M., and Holck, M. Cardiovascular profile of Ro 13-6438, a novel positive inotropic agent with vasodilating properties. *J. Cardiovasc. Pharmacol.* 6(3), 511-519 (1984).
- Osinski, M.T., and Schr?r, K. Inhibition of platelet-derived growth factor-induced mitogenesis by phosphodiesterase 3 inhibitors: Role of protein kinase A in vascular smooth muscle cell mitogenesis. *Biochem. Pharmacol.* 60(3), 381-387 (2000).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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