

RMI 10874

Chemical Properties

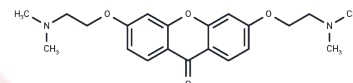
CAS No. : 38020-45-0

Formula: C₂₁H₂₆N₂O₄

Molecular Weight: 370.44

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	RMI 10874, a tilorone analogue, is an orally bioavailable antiviral agent.
Targets(IC50)	Others,Antibiotic
In vivo	Pre-treatment of BALB/c mice with the RMI 10,874DA completely eliminates lung colonization of an H-2-negative (GR9.B9) MCA-induced fibrosarcoma clone in an experimental metastasis assay. The effect of a tilorone analogue (RMI 10,874DA) and anti-asialo GM1 serum is studied on the survival of BALB/c and C57B1/6 mice after i.v. injections of different syngeneic murine tumor cells. Natural killer (NK) cell activation in vivo by RMI 10874 prolongs survival and inhibits metastasis formation in mice, even when pretreatment consists of a single dose of the analogue[2]. Tilorone is a small-molecule, orally bioavailable drug that is used clinically as an antiviral[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6995 mL	13.4975 mL	26.9949 mL
5 mM	0.5399 mL	2.6995 mL	5.399 mL
10 mM	0.2699 mL	1.3497 mL	2.6995 mL
50 mM	0.054 mL	0.2699 mL	0.5399 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

Algarra I, et al. Generation and control of metastasis in experimental tumor systems; inhibition of experimental metastases by a tilorone analogue. *Int J Cancer*. 1993 May 28;54(3):518-23.

Algarra I, et al. Effect of in vivo activation of natural killer (NK) cells by a tilorone analogue on the survival of mice injected intravenously with different experimental murine tumours. *Clin Exp Immunol*. 1996 Mar;103(3):499-505.

Ekins S, et al. Efficacy of Tilorone Dihydrochloride against Ebola Virus Infection. *Antimicrob Agents Chemother*. 2018 Jan 25;62(2). pii: e01711-17.

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