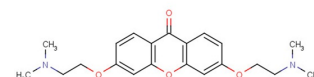


RMI 10874

Chemical Properties

CAS No.:	38020-45-0
Formula:	C ₂₁ H ₂₆ N ₂ O ₄
Molecular Weight:	370.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	RMI 10874 is a tilorone analogue. Tilorone is an orally bioavailable antiviral agent.
Targets(IC ₅₀)	Others: None
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].

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	2.699 mL	13.497 mL	26.995 mL
5 mM	0.54 mL	2.699 mL	5.399 mL
10 mM	0.27 mL	1.35 mL	2.699 mL
50 mM	0.054 mL	0.27 mL	0.54 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

- 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.

Inhibitors · Natural Compounds · Compound Libraries

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