

Product Data Sheet

Product Name: RMI 10874

Cat. No.: GC32368

Chemical Properties

Cas. No. 38020-45-0

SMILES O=C1C2=C(OC3=C1C=CC(OCCN(C)C)=C3)C=C(OCCN(C)C)C=C2

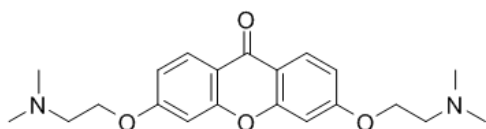
Formula $C_{21}H_{26}N_2O_4$ M.Wt 370.44

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

RMI 10874 is a tilorone analogue. Tilorone is a small-molecule, orally bioavailable antiviral agent. RMI 10874 completely abolishes lung colonization of an H-2 negative (GR9.B9) MCA-induced fibrosarcoma clone.

The effect of RMI 10874 (RMI 10,874DA) in the abrogation of the metastatic spread of tumor cells is studied. 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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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metastasis assay[1]. 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].

[1]. 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. [2]. 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. [3]. 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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