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产品名称: 马洛替酯  
产品别名: Malotilate

生物活性:				
Description	<p>Malotilate is a liver protein metabolism improved compound, which selectively inhibit the 5-lipoxygenase. IC50 Value: Target: 5-lipoxygenase in vitro: In an in vitro invasion assay using rat lung endothelial (RLE) cells, invasion of tumor cells which had been treated with MT (10 ng/ml, 24 h) was not affected; however, when RLE cells had been treated with MT, invasion was significantly inhibited in three cell lines (SAS, Ca9-22 and HSC-4) and a tendency to inhibition was also observed in other cell lines [1]. in vivo: The improvement rates for choline esterase activity were significantly greater in the malotilate group than in the control group. Serum albumin levels significantly increased in the malotilate group but not in the control group [2]. In the rats treated with MT for 19 days after i.v. inoculation of c-SST-2 cells, lung metastasis was also significantly suppressed [3]. Malotilate prevented increases in serum markers of type III and IV collagen synthesis as well as accumulation of the collagens, laminin and fibronectin in the liver [4]. Toxicity: Malotilate cytotoxicity to PBMCs, assessed by trypan blue dye exclusion and lactate dehydrogenase (LDH) release into the culture media, was found to be markedly increased by the addition of the NADPH generating system, indicating that metabolites play a significant role in toxicity [5].</p>			
	<p><b>In Vitro:</b></p> <p><b>DMSO : ≥ 100 mg/mL (346.76 mM)</b></p> <p>* "≥" means soluble, but saturation unknown.</p> <table><tr><td rowspan="4">Preparing  &lt;</td></tr></table>			
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	<p>2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline)</p> <p>Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (8.67 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水溶液中, 混合均匀。</p> <p>3.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (8.67 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Shibata T, et al. Inhibitory effects of malotilate on in vitro invasion of lung endothelial cell monolayer by human oral squamous cell carcinoma cells. Tumour Biol. 2000 Sep-Oct;21(5):299-308.</p> <p>[2]. Takase S, et al. Effects of malotilate treatment on alcoholic liver disease. Alcohol. 1989 May-Jun;6(3):219-22.</p> <p>[3]. Nagayasu H, et al. Inhibitory effects of malotilate on invasion and metastasis of rat mammary carcinoma cells by modifying the functions of vascular endothelial cells. Br J Cancer. 1998 May;77(9):1371-7.</p> <p>[4]. Ryhanen L, et al. The effect of malotilate on type III and type IV collagen, laminin and fibronectin metabolism in dimethylnitrosamine-induced liver fibrosis in the rat. J Hepatol. 1996 Feb;24(2):238-45.</p> <p>[5]. Nomura F, et al. Detection of malotilate toxicity in vitro with peripheral blood mononuclear cells as targets. A preliminary report. J Hepatol. 1990 Jul;11(1):65-9.</p>

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