

Malotilate

Catalog No: tcsc1594



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

59937-28-9

Formula:

$C_{12}H_{16}O_4S_2$

Pathway:

Metabolic Enzyme/Protease

Target:

5-Lipoxygenase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

NKK 105

Observed Molecular Weight:

288.38

Product Description

Malotilate is a liver protein metabolism improved compound, which selectively inhibit the 5-lipoxygenase.

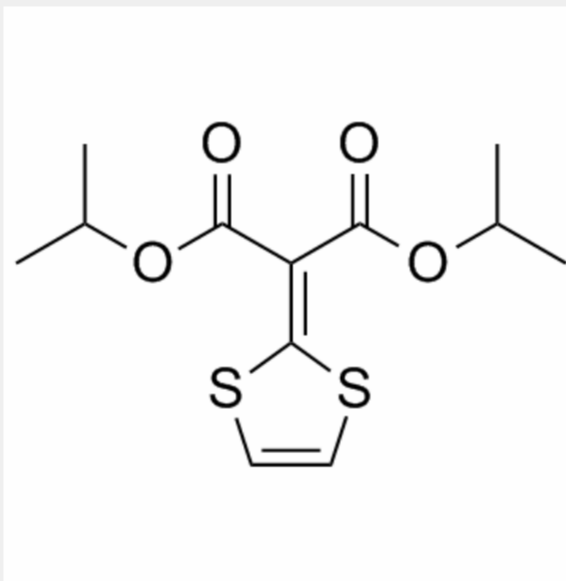
IC50 Value:

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].



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