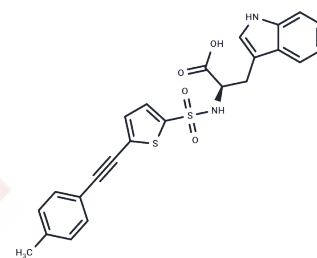


S 3304

Chemical Properties

CAS No. : 203640-27-1
 Formula: C₂₄H₂₀N₂O₄S₂
 Molecular Weight: 464.56
 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	S 3304 is a novel matrix metalloproteinase inhibitor, specifically targeting MMP-2 and MMP-9.
Targets(IC50)	MMP
In vitro	S 3304 is a novel D-tryptophan derivative and a potent, noncytotoxic matrix metalloproteinase inhibitor. It most effectively inhibits MMP-2 and MMP-9 activities but does not inhibit MMP-1, MMP-3, or MMP-7, potentially avoiding the musculoskeletal side effects associated with nonspecific inhibitors [1].
In vivo	S 3304 (p.o., the dose range of 20 to 200 mg/kg) treatment, inhibits angiogenesis, artificially induced in mice by the dorsal air-sac method. Similar oral doses of S 3304 cause effective inhibition of metastatic lung colonization of Lewis murine lung carcinoma injected via tail vein and liver metastasis of C-1H human colon cancer implanted into the spleen [1].

Solubility Information

Solubility	DMSO: 83.3 mg/mL (179.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.1 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1526 mL	10.7629 mL	21.5257 mL
5 mM	0.4305 mL	2.1526 mL	4.3051 mL
10 mM	0.2153 mL	1.0763 mL	2.1526 mL
50 mM	0.0431 mL	0.2153 mL	0.4305 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

Chiappori AA, et al. A phase I pharmacokinetic and pharmacodynamic study of s-3304, a novel matrix metalloproteinase inhibitor, in patients with advanced and refractory solid tumors. Clin Cancer Res. 2007 Apr 1;13(7):2091-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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