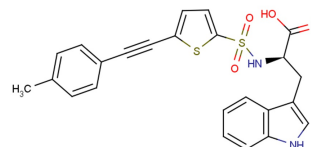


S 3304

**Chemical Properties**

CAS No.: 203640-27-1  
Formula: C<sub>24</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>  
Molecular Weight: 464.56  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	S 3304 is a novel matrix metalloproteinases inhibitor which is specific for MMP-2 and MMP-9.
Targets(IC <sub>50</sub> )	MMP-9: None
In vitro	S 3304 is a novel D-tryptophan derivative and a potent, noncytotoxic Matrix metalloproteinases inhibitor. S 3304 most effectively inhibits the activities of MMP-2 and MMP-9 but does not inhibit MMP-1, MMP-3, or MMP-7 and may, therefore, lack the musculoskeletal side effects seen 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) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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**Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	2.153 mL	10.763 mL	21.526 mL
5 mM	0.431 mL	2.153 mL	4.305 mL
10 mM	0.215 mL	1.076 mL	2.153 mL
50 mM	0.043 mL	0.215 mL	0.431 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**

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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