

Data Sheet

Product Name: S 3304

 Cat. No.:
 CS-0027075

 CAS No.:
 203640-27-1

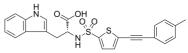
 Molecular Formula:
 C24H20N2O4S2

Molecular Weight: 464.56 Target: MMP

Pathway: Metabolic Enzyme/Protease

Solubility: H2O : $< 0.1 \text{ mg/mL (insoluble)}; DMSO : <math>\ge 83.3 \text{ mg/mL (179.31)}$

mM)



BIOLOGICAL ACTIVITY:

S 3304 is a novel matrix metalloproteinases (MMP) inhibitor specific for MMP-2 and MMP-9. IC50 & Target: MMP-2, MMP-9^[1] In Vitro: S 3304 is a novel D-tryptophan derivative and a potent, orally active, noncytotoxic Matrix metalloproteinases inhibitor (MMPI). Biochemical studies show that S 3304 most potently 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: In vivo pharmacologic studies have shown that the oral administration of S 3304, at a dose range of 20 to 200 mg/kg, inhibits angiogenesis, artificially induced in mice by the dorsal air-sac method. Similar oral doses of S 3304 result in potent 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].

References:

[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.

CAIndexNames:

 $\hbox{ D-Tryptophan, N-[[5-[2-(4-methylphenyl)ethynyl]-2-thienyl]sulfonyl]-$}$

SMILES:

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

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