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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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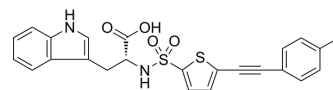
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S 3304

Cat. No.:	HY-106992
CAS No.:	203640-27-1
Molecular Formula:	C ₂₄ H ₂₀ N ₂ O ₄ S ₂
Molecular Weight:	464.56
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 83.3 mg/mL (179.31 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (5.38 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

S 3304 is a novel matrix metalloproteinases (MMP) inhibitor specific for MMP-2 and MMP-9. S 3304 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

IC₅₀ & Target

MMP-9

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].

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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