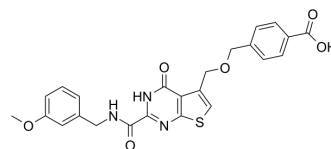


T-26c

Cat. No.:	HY-100518		
CAS No.:	869296-13-9		
Molecular Formula:	C ₂₄ H ₂₁ N ₃ O ₆ S		
Molecular Weight:	479.51		
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 : 15.62 mg/mL (32.57 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0855 mL	10.4273 mL	20.8546 mL
		5 mM	0.4171 mL	2.0855 mL	4.1709 mL
		10 mM	0.2085 mL	1.0427 mL	2.0855 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.56 mg/mL (3.25 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.56 mg/mL (3.25 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	T-26c is highly potent and selective matrix metalloproteinase-13 (MMP-13) inhibitor with an IC ₅₀ of 6.75 pM and more than 2600-fold selectivity over the other related metalloenzymes ^[1] .
IC ₅₀ & Target	IC ₅₀ : 6.75 pM (MMP-13) ^[1]
In Vitro	T-26c significantly inhibits the breakdown of collagen (87.4% inhibition at 0.1 μM) in IL-1β and oncostatin M stimulated cartilage ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	T-26c is well absorbed in all species at the oral dose of 10–20 mg/kg. Oral administration of the disodium salt formulations of

T-26c to guinea pigs results in significant increases in AUC (8357 ng h/mL) and C_{max} (1445 ng/mL) compared with those of the free acid T-26c (AUC = 6478 ng h/mL and C_{max} = 911 ng/mL)^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Stem Cell. 2023 May 4;30(5):648-664.e8.

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REFERENCES

[1]. Nara H, et al. Thieno[2,3-d]pyrimidine-2-carboxamides bearing a carboxybenzene group at 5-position: highly potent, selective, and orally available MMP-13 inhibitors interacting with the S1" binding site. Bioorg Med Chem. 2014 Oct 1;22(19):5487-505.

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

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