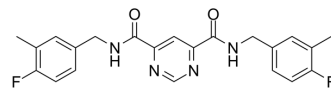


DB04760

Cat. No.:	HY-125166		
CAS No.:	544678-85-5		
Molecular Formula:	C ₂₂ H ₂₀ F ₂ N ₄ O ₂		
Molecular Weight:	410.42		
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 : 100 mg/mL (243.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4365 mL	12.1826 mL	24.3653 mL
		5 mM	0.4873 mL	2.4365 mL	4.8731 mL
10 mM		0.2437 mL	1.2183 mL	2.4365 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DB04760 (compound 4) is a potent, highly selective, non-zinc-chelating MMP-13 inhibitor with an IC ₅₀ of 8 nM ^[1] . DB04760 significantly reduces paclitaxel neurotoxicity and has anticancer activity ^[2] .
IC ₅₀ & Target	MMP-13 8 nM (IC ₅₀)

CUSTOMER VALIDATION

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

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Engel CK, et al. Structural basis for the highly selective inhibition of MMP-13. Chem Biol. 2005 Feb;12(2):181-9.
- [2]. Thomas S. Lisse, et al. Paclitaxel-induced epithelial damage and ectopic MMP-13 expression promotes neurotoxicity in zebrafish. Proc Natl Acad Sci U S A. 2016 Apr 12; 113(15): E2189–E2198.
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Caution: Product has not been fully validated for medical applications. For research use only.

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