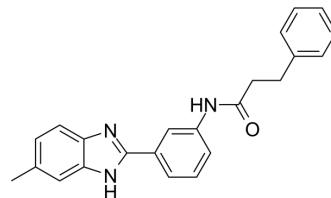


MMP2-IN-3

Cat. No.:	HY-147746		
CAS No.:	897799-81-4		
Molecular Formula:	C ₂₃ H ₂₁ N ₃ O		
Molecular Weight:	355.43		
Target:	MMP		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (281.35 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8135 mL	14.0675 mL	28.1349 mL
	5 mM	0.5627 mL	2.8135 mL	5.6270 mL
	10 mM	0.2813 mL	1.4067 mL	2.8135 mL

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

BIOLOGICAL ACTIVITY

Description

MMP2-IN-3 (compound 2) is a potent MMP-2 (matrix metalloproteinases) inhibitor, with an IC₅₀ of 31 μM. MMP2-IN-3 also shows inhibitory activity against MMP-9 and MMP-8, with IC₅₀ values of 26.6, and 32 μM, respectively^[1].

IC₅₀ & Target

MMP-9	MMP-2	MMP-8	MMP-13
26.6 ± 2.3 μM (IC ₅₀)	31 ± 5 μM (IC ₅₀)	32 ± 4 μM (IC ₅₀)	>100 μM (IC ₅₀)

REFERENCES

[1]. Laghezza A, et al. Virtual screening identification and chemical optimization of substituted 2-arylbenzimidazoles as new non-zinc-binding MMP-2 inhibitors. Bioorg Med Chem. 2020 Feb 1;28(3):115257.

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

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