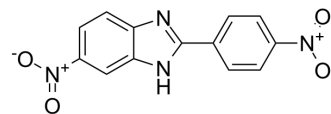


MMP2-IN-2

Cat. No.:	HY-147745
CAS No.:	1772-39-0
Molecular Formula:	C ₁₃ H ₈ N ₄ O ₄
Molecular Weight:	284.23
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 7.14 mg/mL (25.12 mM); ultrasonic and warming and heat to 60°C

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5183 mL	17.5914 mL	35.1828 mL
	5 mM	0.7037 mL	3.5183 mL	7.0366 mL
	10 mM	0.3518 mL	1.7591 mL	3.5183 mL

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

BIOLOGICAL ACTIVITY

Description

MMP2-IN-2 (compound 42) is a potent and selective MMP-2 (matrix metalloproteinases) inhibitor, with an IC₅₀ of 4.2 μM. MMP2-IN-2 also shows inhibitory activity against MMP-13, MMP-9 and MMP-8, with IC₅₀ values of 12, 23.3, and 25 μM, respectively^[1].

IC₅₀ & Target

MMP-2	MMP13	MMP-9	MMP-8
4.2 ± 0.2 μM (IC ₅₀)	12 ± 7 μM (IC ₅₀)	23.3 ± 10. μM (IC ₅₀)	25 ± 10 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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