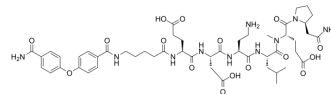


TP0556351

Cat. No.:	HY-147936
CAS No.:	2787582-17-4
Molecular Formula:	C ₅₀ H ₇₀ N ₁₀ O ₁₆
Molecular Weight:	1067.15
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TP0556351 is a potent and selective matrix metalloproteinase-2 (MMP2) inhibitor with an IC ₅₀ value of 0.2 nM. TP0556351 reduces the amount of collagen in the lungs of a Bleomycin-induced pulmonary fibrosis mouse model. TP0556351 can be used for researching idiopathic pulmonary fibrosis (IPF) ^[1] .
IC₅₀ & Target	MMP-2 0.2 nM (IC ₅₀)
In Vivo	TP0556351 (0.03, 0.1, 0.3, or 1 mg/kg/day; SC, for 14 days) reduces the amount of collagen in the lungs of a Bleomycin-induced pulmonary fibrosis mouse model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Takeuchi T, et al. Discovery of Aryloxyphenyl-Heptapeptide Hybrids as Potent and Selective Matrix Metalloproteinase-2 Inhibitors for the Treatment of Idiopathic Pulmonary Fibrosis. *J Med Chem.* 2022 Jun 23;65(12):8493-8510.

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

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