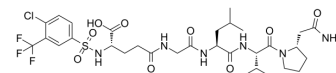


## MMP-7-IN-1

<b>Cat. No.:</b>	HY-151540
<b>CAS No.:</b>	2865097-05-6
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>44</sub> ClF <sub>3</sub> N <sub>6</sub> O <sub>9</sub> S
<b>Molecular Weight:</b>	769.23
<b>Target:</b>	MMP
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (130.00 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3000 mL	6.5000 mL	13.0000 mL
	5 mM	0.2600 mL	1.3000 mL	2.6000 mL
	10 mM	0.1300 mL	0.6500 mL	1.3000 mL

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

### BIOLOGICAL ACTIVITY

#### Description

MMP-7-IN-1 is a potent and selective inhibitor of MMP-7 over MMP-1, -2, -3, -8, -9, -13 with an IC<sub>50</sub> value of 10 nM. MMP-7 is a potential target for diseases including cancer and fibrosis<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

MMP-7  
10 nM (IC<sub>50</sub>)

### REFERENCES

[1]. Tabuse H, et al. Discovery of Highly Potent and Selective Matrix Metalloproteinase-7 Inhibitors by Hybridizing the S1' Subsite Binder with Short Peptides. J Med Chem. 2022 Oct 13;65(19):13253-13263.

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

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