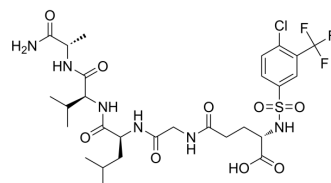


## MMP-7-IN-2

Cat. No.:	HY-153563
CAS No.:	2848717-49-5
Molecular Formula:	C <sub>28</sub> H <sub>40</sub> ClF <sub>3</sub> N <sub>6</sub> O <sub>9</sub> S
Molecular Weight:	729.17
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year

\* 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 (137.14 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.3714 mL	6.8571 mL	13.7142 mL
5 mM	0.2743 mL	1.3714 mL	2.7428 mL
10 mM	0.1371 mL	0.6857 mL	1.3714 mL

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

### BIOLOGICAL ACTIVITY

#### Description

MMP-7-IN-2 (compound 16) is a selective inhibitor of MMP7 with an IC<sub>50</sub> value of 16 nM<sup>[1]</sup>.

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

MMP-7 16 nM (IC <sub>50</sub> )	MMP-14 11000 nM (IC <sub>50</sub> )	MMP-12 12000 nM (IC <sub>50</sub> )	MMP-2 33000 (IC <sub>50</sub> )
MMP-3 >100000 (IC <sub>50</sub> )	MMP-8 >100000 (IC <sub>50</sub> )	MMP-9 >100000 (IC <sub>50</sub> )	MMP-13 >100000 (IC <sub>50</sub> )

### REFERENCES

[1]. Hideaki Tabuse, 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA