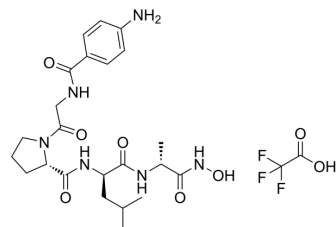


## FN-439 TFA

<b>Cat. No.:</b>	HY-100210A
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>35</sub> F <sub>3</sub> N <sub>6</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	604.58
<b>Target:</b>	MMP
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	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

H<sub>2</sub>O : 250 mg/mL (413.51 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6540 mL	8.2702 mL	16.5404 mL
	5 mM	0.3308 mL	1.6540 mL	3.3081 mL
	10 mM	0.1654 mL	0.8270 mL	1.6540 mL

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

## BIOLOGICAL ACTIVITY

### Description

FN-439 TFA is a selective collagenase-1 inhibitor. FN-439 TFA inhibits collagenase-1 with an IC<sub>50</sub> value of 1 μM. FN-439 TFA can be used for the research of cancer and inflammation<sup>[1][2]</sup>.

## REFERENCES

[1]. U Benbow, et al. Human breast cancer cells activate procollagenase-1 and invade type I collagen: invasion is inhibited by all-trans retinoic acid. Clin Exp Metastasis. 1999 May;17(3):231-8.

[2]. H Anan, et al. Effects of a combination of an antibacterial agent (ofloxacin) and a collagenase inhibitor (FN-439) on the healing of rat periapical lesions. J Endod. 1996 Dec;22(12):668-73.

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

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