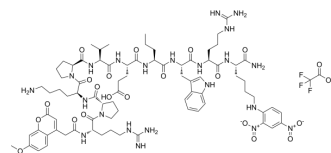


NFF-3 TFA

Cat. No.:	HY-P2185A
Molecular Formula:	C ₈₀ H ₁₁₁ F ₃ N ₂₂ O ₂₂
Molecular Weight:	1789.87
Sequence:	Arg-Pro-Lys-Pro-Val-Glu-{Nva}-Trp-Arg-Lys(DNP)-NH ₂
Sequence Shortening:	RPKPVE-{Nva}-WR-{K(DNP)}-NH ₂
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture and light, under nitrogen
	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, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (55.87 mM; ultrasonic and warming and heat to 60°C)
 H₂O : < 0.1 mg/mL (ultrasonic; adjust pH to 2 with HCl) (insoluble)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.5587 mL	2.7935 mL	5.5870 mL
	5 mM	0.1117 mL	0.5587 mL	1.1174 mL
	10 mM	0.0559 mL	0.2793 mL	0.5587 mL

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

BIOLOGICAL ACTIVITY

Description

NFF-3 TFA, the peptide, is a selective MMP substrate. NFF-3 TFA selectively binds to MMP-3 and MMP-10 to be hydrolyzed. NFF-3 TFA is also cleaved by trypsin, hepatocyte growth factor activator, and factor Xa. Label NFF-3 TFA with a CyDye pair, Cy3/Cy5Q, can produce fluorescence in cell assays to detect cell activity^[1].

IC₅₀ & Target

MMP-3

MMP-10

REFERENCES

[1]. Giricz O, et al. Comparison of metalloproteinase protein and activity profiling. Anal Biochem. 2011 Feb 1;409(1):37-45.

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

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