

Mca-PLAQAV-Dpa-RSSSR-NH2 TFA

Cat. No.:	HY-P3722A		
Molecular Formula:	$C_{69}H_{103}N_{23}O_{24}C_2HF_3O_2$		
Molecular Weight:	1752.72		
Sequence:	{Mca}-Pro-Leu-Ala-Gln-Ala-Val-(Dpa)-Arg-Ser-Ser-Ser-Arg-NH2	{Mca}-PLAQAV-(Dpa)-RSSSR-NH ₂ (TFA salt)	
Sequence Shortening:	{Mca}-PLAQAV-Dpa-RSSSR-NH2		
Target:	Fluorescent Dye; MMP		
Pathway:	Others; Metabolic Enzyme/Protease		
Storage:	Sealed storage, away from moisture		
	Powder	-80°C	2 years
		-20°C	1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

SOLVENT & SOLUBILITY

In Vitro

H₂O : 12.5 mg/mL (7.13 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.5705 mL	2.8527 mL	5.7054 mL
	5 mM	0.1141 mL	0.5705 mL	1.1411 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Mca-PLAQAV-Dpa-RSSSR-NH2 is a fluorescent peptide and as one of fluorescent substrates of TNF- α converting enzyme (TACE); ADAM17, ADAM 9 and ADAM 10. Mca-PLAQAV-Dpa-RSSSR-NH2 is a substrate based on fluorescence resonance energy transfer, and its activity can be determined by the change of fluorescence intensity during pyrolysis^[1].

IC₅₀ & Target

ADAM10

ADAM17

REFERENCES

[1]. Yi Wang, et al. Protease assay method using site-specific fluorescence dye labeled protein as substrate. US9708638. 2017.

[2]. Haga S, et al. TACE antagonists blocking ACE2 shedding caused by the spike protein of SARS-CoV are candidate antiviral compounds. Antiviral Res. 2010 Mar;85(3):551-5.

[3]. Inoshima N, et al. Genetic requirement for ADAM10 in severe Staphylococcus aureus skin infection. J Invest Dermatol. 2012 May;132(5):1513-6.

[4]. Liang T, et al. KID24, an antibody directed against ADAM9, is a potent inhibitor of tumor growth in vivo[J]. Molecular Cancer Therapeutics, 2007, 6(11_Supplement): C32-C32.

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

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