

Mca-PLAQAV-Dpa-RSSSR-NH2

Cat. No.:	HY-P3722
CAS No.:	192723-42-5
Molecular Formula:	C ₆₉ H ₁₀₃ N ₂₃ O ₂₄
Molecular Weight:	1638.7
Sequence:	{Mca}-Pro-Leu-Ala-Gln-Ala-Val-{Dpa}-Arg-Ser-Ser-Ser-Arg-NH2
Sequence Shortening:	{Mca}-PLAQAV-{Dpa}-RSSSR-NH2
Target:	Fluorescent Dye; MMP
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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.

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