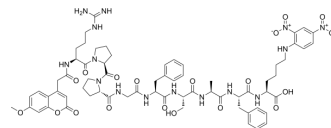


Mca-(ala7,lys(dnp)9)-bradykinin

Cat. No.:	HY-P3749
CAS No.:	323577-36-2
Molecular Formula:	C ₆₆ H ₈₁ N ₁₅ O ₁₉
Molecular Weight:	1388.44
Sequence Shortening:	{MOCAC}-RPPGFSAFK-{DNP}
Target:	Fluorescent Dye
Pathway:	Others
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 (72.02 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.7202 mL	3.6012 mL	7.2023 mL
	5 mM	0.1440 mL	0.7202 mL	1.4405 mL
	10 mM	0.0720 mL	0.3601 mL	0.7202 mL

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

BIOLOGICAL ACTIVITY

Description

Mca-(ala7,lys(dnp)9)-bradykinin is a sensitive fluorogenic substrate for ECE-1 (endothelin-converting enzyme-1). The incorporation of a (7-methoxycoumarin-4-yl)acetyl (Mca) fluorescent group and a 2,4-dinitrophenyl (Dnp) quenching group has resulted in a large fluorescence increase upon substrate cleavage^[1].

In Vitro

Mca-(ala7,lys(dnp)9)-bradykinin is also a substrate for neprilysin, but is hydrolyzed 10-fold more efficiently by ECE-1, making this substrate selective for ECE-1^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Johnson GD, et al. Development of an internally quenched fluorescent substrate selective for endothelin-converting enzyme-1. *Anal Biochem.* 2000 Nov 1;286(1):112-8.

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

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