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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

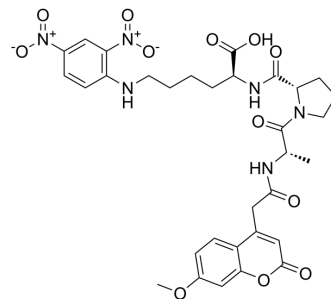
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Mca-Ala-Pro-Lys(Dnp)-OH

Cat. No.:	HY-P2536
CAS No.:	305336-82-7
Molecular Formula:	C ₃₂ H ₃₆ N ₆ O ₁₂
Molecular Weight:	696.66
Sequence Shortening:	Mca-AP{K(Dnp)}
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	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	DMSO : 50 mg/mL (71.77 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.4354 mL	7.1771 mL	14.3542 mL
		5 mM		0.2871 mL	1.4354 mL	2.8708 mL
	10 mM		0.1435 mL	0.7177 mL	1.4354 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.59 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Mca-Ala-Pro-Lys(Dnp)-OH, a specific ACE2 quenched fluorogenic substrate, can be used to detect ACE2 activity, such as urinary, heart and lung ^{[1][2]} .
In Vitro	The activity of ACE2 enzyme detected by: the fluorescent peptide substrate Mca-AlaPro-Lys (Dnp)-OH is hydrolyzed by ACE2 and its product is detected by the active fluorescence resonance energy transfer method ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu J, Ji H, et al. Sex differences in renal angiotensin converting enzyme 2 (ACE2) activity are 17β-oestradiol-dependent and sex chromosome-independent. Biol Sex

Differ. 2010;1(1):6. Published 2010 Nov 5.

[2]. Liang Y, et al. Urinary angiotensin converting enzyme 2 increases in patients with type 2 diabetic mellitus. Kidney Blood Press Res. 2015;40(2):101-110.

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