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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

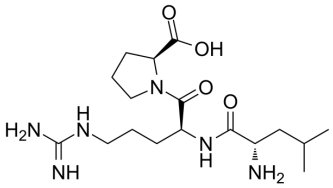
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Leucylarginylproline

Cat. No.:	HY-P0143
CAS No.:	133943-59-6
Molecular Formula:	$C_{17}H_{32}N_6O_4$
Molecular Weight:	384.47
Sequence:	Leu-Arg-Pro
Sequence Shortening:	LRP
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Leucylarginylproline is an angiotensin-converting enzyme (ACE) inhibitor with an IC_{50} of 0.27μM.
IC_{50} & Target	IC50: 0.27μM (ACE)[1]
In Vitro	Intravenous injection of Leucylarginylproline (30mg/kg) causes a decrease in the blood pressure. The maximum mean blood pressure reduction (about 15 mmHg) occurrs about 2 min after the injection[1]. Leucylarginylproline peptide reduces the blood pressure by about 15 mmHg at the fourth hour and shows a maximal reduction effect of about 35 mmHg at the eighth hour after oral administration[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Kinase Assay [1]	Hip-His-Leu (5mM) and an ACE inhibitor (Leucylarginylproline) are dissolved in a 100 mM sodium borate buffer (pH 8.3) containing 300 mM NaCl, and incubated for 30 min with 8 milliunits of ACE at 37°C. The ACE inhibitor concentration required to inhibit 50% of the ACE activity under the above conditions is defined as IC_{50}[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Administration [2]	Rats: Leucylarginylproline is dissolved in 1.0 mM normal saline. After being warmed up, rats are orally administered (0.18 mmol/kg bw) with peptides or normal saline (control). Tail systolic blood pressures are measured at 2-h intervals (0, 2, 4, 6, 8, 10, and 12 h) after the administration[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Miyoshi S, et al. Structures and activity of angiotensin-converting enzyme inhibitors in an alpha-zein hydrolysate. Agric Biol Chem. 1991 May;55(5):1313-8.

[2]. Chen TL, et al. Microencapsulation and modification of synthetic peptides of food proteins reduces the blood pressure of spontaneously hypertensive rats. J Agric Food

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