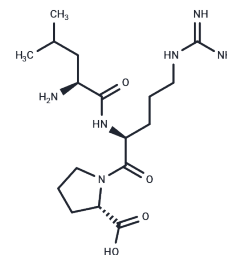


Leucylarginylproline

Chemical Properties

CAS No. :	133943-59-6
Formula:	C17H32N6O4
Molecular Weight:	384.47
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Leucylarginylproline is an inhibitor of angiotensin-converting enzyme (ACE) (IC50 : 0.27 μM).
Targets(IC50)	RAAS,Angiotensin-converting Enzyme (ACE)
In vivo	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[1]

Solubility Information

Solubility	DMSO: 12 mg/mL (31.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.601 mL	13.0049 mL	26.0098 mL
5 mM	0.5202 mL	2.601 mL	5.202 mL
10 mM	0.2601 mL	1.3005 mL	2.601 mL
50 mM	0.052 mL	0.2601 mL	0.5202 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen T L , Lo Y C , Hu W T , et al. Microencapsulation and Modification of Synthetic Peptides of Food Proteins Reduces the Blood Pressure of Spontaneously Hypertensive Rats[J]. Journal of Agricultural and Food Chemistry, 2003, 51(6):1671-1675.

Miyoshi S , Ishikawa H , Kaneko T , et al. Structures and activity of angiotensin-converting enzyme inhibitors in an. ALPHA.-zein hydrolysate.[J]. Agricultural and Biological Chemistry, 1991, 55(5):1313-1318.

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