

Hemopressin (rat)

Chemical Properties

CAS No.:	568588-77-2
Formula:	C ₅₃ H ₇₇ N ₁₃ O ₁₂
Molecular Weight:	1088.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Bioactive endogenous peptide substrate for endopeptidase 24.15 (ep24.15), neurolysin (ep24.16) and ACE. Ki values are 27.76, 3.43 and 1.87 μ M respectively. Potent hypotensive in vivo. Also acts as a selective CB1 receptor inverse agonist. Displays antinociceptive activity and induces hypophagia in vivo.
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Solubility Information

Solubility	20% acetonitrile: 2 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.919 mL	4.594 mL	9.189 mL
5 mM	0.184 mL	0.919 mL	1.838 mL
10 mM	0.092 mL	0.459 mL	0.919 mL
50 mM	0.018 mL	0.092 mL	0.184 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Heimann et al (2007) Hemopressin is an inverse agonist of CB1 cannabinoid receptors. Proc.Natl.Acad.Sci.U.S.A. 104 20588 PMID:
2. Rioli et al (2003) Novel natural peptide substrates for endopeptidase 24.15, neurolysin, and angiotensin-converting enzyme. J.Biol.Chem. 278 8547 PMID:
3. Todd et al (2010) The peptide hemopressin acts through CB1 cannabinoid receptors to reduce food intake in rats and mice. J.Neurosci. 30 7369 PMID:

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