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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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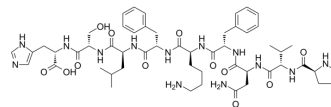
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Hemopressin(rat)

Cat. No.:	HY-P1090
CAS No.:	568588-77-2
Molecular Formula:	C ₅₃ H ₇₇ N ₁₃ O ₁₂
Molecular Weight:	1088.26
Sequence:	Pro-Val-Asn-Phe-Lys-Phe-Leu-Ser-His
Sequence Shortening:	PVNFKFLSH
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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 : 100 mg/mL (91.89 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		0.9189 mL	4.5945 mL	9.1890 mL
	5 mM		0.1838 mL	0.9189 mL	1.8378 mL
	10 mM		0.0919 mL	0.4594 mL	0.9189 mL

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

BIOLOGICAL ACTIVITY

Description

Hemopressin(rat) is a nonapeptide derived from the α 1-chain of hemoglobin, is originally isolated from rat brain homogenates. Hemopressin(rat) is orally active, selective and inverse agonist of CB1 cannabinoid receptors. Hemopressin(rat) exerts antinociceptive action in inflammatory pain models^{[1][2]}.

In Vivo

Hemopressin(rat) causes hypotension in anesthetized rats and is metabolized in vivo and in vitro by endopeptidase 24.15 (EP24.15), neurolysin (EP24.16), and angiotensin-converting enzyme (ACE)^[1]. Oral administration of Hemopressin(rat) inhibits mechanical hyperalgesia of CCI-rats up to 6h. Hemopressin(rat) treatment also decreases Egr-1 immunoreactivity (Egr-1Ir) in the superficial layer of the dorsal horn of the spinal cord of CCI rats^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Camila Squarzoni Dale, et al. Hemopressin: a novel bioactive peptide derived from the alpha1-chain of hemoglobin. *em Inst Oswaldo Cruz*. 2005 Mar;100 Suppl 1:105-6.

[2]. Elaine F Toniolo, et al. Hemopressin, an inverse agonist of cannabinoid receptors, inhibits neuropathic pain in rats. *Peptides*. 2014 Jun;56:125-31.

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

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