Hemopressin (human, mouse)

Cat. No.:	HY-P1091				
CAS No.:	1314035-51-2				
Molecular Formula:	C ₅₀ H ₇₉ N ₁₃ O ₁₂				
Molecular Weight:	1054.24				
Sequence:	Pro-Val-Asn-Phe-Lys-Leu-Leu-Ser-His				
Sequence Shortening:	PVNFKLLSH				
Target:	Cannabinoid Receptor				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Sealed storage, away from moisture and light, under nitrogen				
	Powder	-80°C	2 years		
		-20°C	1 year		
	months; -20°C, 1 month (sealed storage, away from moisture				
	and light, under nitrogen)				

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 16.67 mg/mL (15.81 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
	1 mM	0.9486 mL	4.7428 mL	9.4855 mL
	5 mM	0.1897 mL	0.9486 mL	1.8971 mL
	10 mM	0.0949 mL	0.4743 mL	0.9486 mL
Please refer to the so	blubility information to select the app	propriate solvent.	1	

Description	Hemopressin is a nonapeptide derived from the α1-chain of hemoglobin, is originally isolated from rat brain homogenates. Hemopressin is orally active, selective and inverse agonist of CB1 cannabinoid receptors. Hemopressin exerts antinociceptive action in inflammatory pain models ^{[1][2]} .					
In Vivo	Hemopressin 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 inhibits mechanical hyperalgesia of CCI-rats up to 6h. Hemopressin 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.					

RedChemExpress



Product Data Sheet

REFERENCES

[1]. Garron T Dodd, et al. The peptide hemopressin acts through CB1 cannabinoid receptors to reduce food intake in rats and mice. J Neurosci. 2010 May 26;30(21):7369-76.

[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.

 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