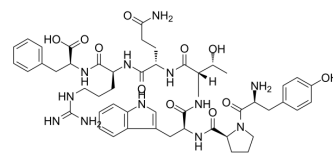


Hemorphin-7

Cat. No.:	HY-P0318
CAS No.:	152685-85-3
Molecular Formula:	C ₄₉ H ₆₄ N ₁₂ O ₁₁
Molecular Weight:	997.11
Sequence:	Tyr-Pro-Trp-Thr-Gln-Arg-Phe
Sequence Shortening:	YPWTQRF
Target:	Opioid Receptor; Angiotensin-converting Enzyme (ACE)
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Powder -80°C 2 years -20°C 1 year In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 12.5 mg/mL (12.54 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.0029 mL	5.0145 mL	10.0290 mL
		5 mM		0.2006 mL	1.0029 mL	2.0058 mL
		10 mM		0.1003 mL	0.5014 mL	1.0029 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS					
	Solubility: 33.33 mg/mL (33.43 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Hemorphin-7 is a hemorphin peptide, an endogenous opioid peptide derived from the β-chain of hemoglobin. Hemorphin peptides exhibits antinociceptive and antihypertensive activities, activating opioid receptors and inhibiting angiotensin-converting enzyme (ACE).
-------------	---

REFERENCES

[1]. Dejouvencel T, et al. Hemorphin 7 reflects hemoglobin proteolysis in abdominal aortic aneurysm. Arterioscler Thromb Vasc Biol. 2010 Feb;30(2):269-75.

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