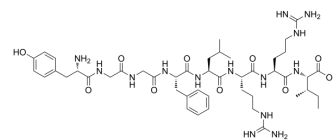


Dynorphin A (1-8)

Cat. No.:	HY-P2159
CAS No.:	75790-53-3
Molecular Formula:	C ₄₆ H ₇₂ N ₁₄ O ₁₀
Molecular Weight:	981.15
Sequence:	Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile
Sequence Shortening:	YGGFLRRI
Target:	Opioid Receptor; Endogenous Metabolite
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Stored under nitrogen, away from moisture
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (101.92 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	1.0192 mL	5.0961 mL	10.1921 mL	
		5 mM	0.2038 mL	1.0192 mL	2.0384 mL	
		10 mM	0.1019 mL	0.5096 mL	1.0192 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	Dynorphin A (1-8) is the predominant opioid peptide identified in placental tissue extracts. Dynorphin A (1-8) is the most likely natural ligand of the kappa receptor. The binding of 3H-Bremazocine to the purified kappa receptor is inhibited by Dynorphin A (1-8) (IC ₅₀ =303 nM) ^{[1][2]} .	
IC ₅₀ & Target	κ Opioid Receptor/KOR	Human Endogenous Metabolite

REFERENCES

[1]. Agbas A, Ahmed MS, Millington W, et al. Dynorphin A(1-8) in human placenta: amino acid sequence determined by tandem mass spectrometry. Peptides. 1995;16(4):623-627.

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