

Dynorphin A

Cat. No.: HY-P1333
CAS No.: 80448-90-4
Molecular Formula: C₉₉H₁₅₅N₃₁O₂₃
Molecular Weight: 2147.48
Sequence: Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln
Sequence Shortening: YGGFLRRIRPKLKWDNQ
Target: Opioid Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Protect from light
 Powder -80°C 2 years
 -20°C 1 year

YGGFLRRIRPKLKWDNQ

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 120 mg/mL (55.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.4657 mL	2.3283 mL	4.6566 mL	
	5 mM	0.0931 mL	0.4657 mL	0.9313 mL	
	10 mM	0.0466 mL	0.2328 mL	0.4657 mL	

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

In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3 mg/mL (1.40 mM); Clear solution
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (1.40 mM); Clear solution
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (1.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Dynorphin A, an endogenous opioid peptide, is a highly potent kappa opioid receptor (KOR) activator. Dynorphin A also serve as an agonist for other opioid receptors, such as mu (MOR) and delta (DOR) ^[1] .
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REFERENCES

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