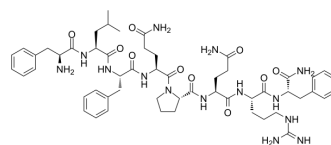


Neuropeptide FF

Cat. No.:	HY-P1248
CAS No.:	99566-27-5
Molecular Formula:	C ₅₄ H ₇₆ N ₁₄ O ₁₀
Molecular Weight:	1081.27
Sequence:	Phe-Leu-Phe-Gln-Pro-Gln-Arg-Phe-NH ₂
Sequence Shortening:	FLFQPQRF-NH ₂
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (92.48 mM; Need ultrasonic)
 H₂O : 50 mg/mL (46.24 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.9248 mL	4.6242 mL	9.2484 mL
5 mM	0.1850 mL	0.9248 mL	1.8497 mL
10 mM	0.0925 mL	0.4624 mL	0.9248 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (2.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (2.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (2.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Neuropeptide FF (NPFF), an octapeptide belonging to the RF-amide family of peptides, interacts with two distinct G-protein-coupled receptors, NPFF(1) and NPFF(2) and has wide variety of physiological functions in the brain including central cardiovascular and neuroendocrine regulation^{[1][2]}.

REFERENCES

- [1]. Mankus JV, et al. Nonpeptide ligands of neuropeptide FF: current status and structural insights. *Future Med Chem.* 2012 Jun;4(9):1085-92.
- [2]. Jhamandas JH, et al. Role of neuropeptide FF in central cardiovascular and neuroendocrine regulation. *Front Endocrinol (Lausanne).* 2013 Feb 7;4:8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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