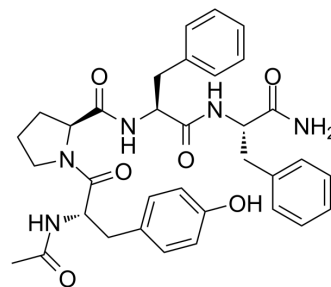


Acetyl tetrapeptide-15

Cat. No.:	HY-P1626
CAS No.:	928007-64-1
Molecular Formula:	C ₃₄ H ₃₉ N ₅ O ₆
Molecular Weight:	613.7
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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 (162.95 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6295 mL	8.1473 mL	16.2946 mL
	5 mM	0.3259 mL	1.6295 mL	3.2589 mL
	10 mM	0.1629 mL	0.8147 mL	1.6295 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 (4.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Acetyl tetrapeptide-15 is a synthetic peptide used in the cosmetics for sensitive skin. Acetyl tetrapeptide-15 is derived from endomorphin-2 (Tyr-Pro-Phe-Phe-NH₂), a human μ-opioid agonist with selective anti-nociceptive effect. Acetyl tetrapeptide-15 reduces skin hyperreactivity producing inflammatory, chronic and neuropathic pain, by increasing the threshold of neuronal excitability in μ-opioid receptor via an endorphin-like pathway^[1].

REFERENCES

[1]. Resende DISP, et al. Usage of Synthetic Peptides in Cosmetics for Sensitive Skin. Pharmaceuticals (Basel). 2021;14(8):702.

Caution: Product has not been fully validated for medical applications. For research use only.

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