N-Acetyloxytocin

Cat. No.: HY-P3219

CAS No.: 10551-48-1

Molecular Formula: $C_{45}H_{68}N_{12}O_{13}S_2$

Molecular Weight: 1049.22

Sequence Shortening: Ac-CYIQNCPLG-NH2 (Disulfide bridge:Cys1-Cys6)

Target: Endogenous Metabolite

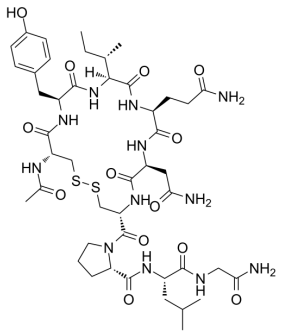
Pathway: Metabolic Enzyme/Protease

Storage: Sealed storage, away from moisture and light, under nitrogen

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, under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (47.65 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9531 mL	4.7654 mL	9.5309 mL
	5 mM	0.1906 mL	0.9531 mL	1.9062 mL
	10 mM	0.0953 mL	0.4765 mL	0.9531 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: ≥ 2.08 mg/mL (1.98 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (1.98 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (1.98 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Acetyloxytocin is isolated and characterized in the neurointermediate lobe of the rat pituitary (NIL) and their presence in several brain areas of the rat[1].

In Vitro

N-Acetyloxytocin is a post-translational modification of vasopressin (VP), and oxytocin (OT). The acetylated forms arc not

	restricted to the pineal gland, the tissue in which N-Acetyloxytocin is initially identified, but also occur in other systems producing OT and VP[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu B, et al. N-acetyl-vasopressin- and N-acetyl-oxytocin-like substances: isolation and characterization in the rat neurointermediate pituitary and presence in the brain. J Neuroendocrinol. 1989;1(1):47-52.

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