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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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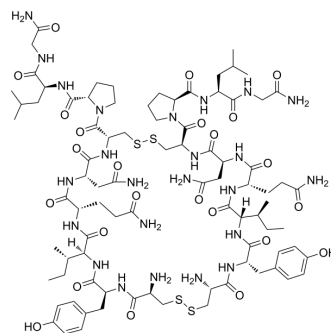
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Oxytocin parallel dimer

Cat. No.:	HY-P3215
CAS No.:	19645-28-4
Molecular Formula:	C ₈₆ H ₁₃₂ N ₂₄ O ₂₄ S ₄
Molecular Weight:	2014.37
Sequence Shortening:	Sequence 1:CYIQNCPLG-NH ₂ ;Sequence 2:CYIQNCPLG-NH ₂ (Disulfide bridge:Chain1 Cys1 to Chain2 Cys1;Chain1 Cys6 to Chain2 Cys6)
Target:	Others
Pathway:	Others
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 : 25 mg/mL (12.41 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.4964 mL	2.4822 mL	4.9643 mL
	5 mM	0.0993 mL	0.4964 mL	0.9929 mL
	10 mM	0.0496 mL	0.2482 mL	0.4964 mL

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

BIOLOGICAL ACTIVITY

Description

Oxytocin parallel dimer is the disulfide-bridged homo peptide dimer. Oxytocin dimer has oxytocin and vasopressin-like activity with less toxic than oxytocin^{[1][2]}.

In Vitro

The parallel and antiparallel homo/hetero bis-cystine dimers of oxytocin and deamino-oxytocin show biological activities ranged from 0.2% to 6% that of oxytocin^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Oxytocin dimer (iv; single dose) shows acute toxicity (LD₅₀=43 mg/kg) is less than that of oxytocin (LD₅₀=25 mg/kg) in rats^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Berde B, et al. Some pharmacological properties of oxytocin-dimers ($\alpha + \beta$)[J]. *Experientia*, 1971, 27: 1304-1305.

[2]. Chen L, et al. Syntheses and biological activities of parallel and antiparallel homo and hetero bis-cystine dimers of oxytocin and deamino-oxytocin. *Pept Res.* 1996;9(3):114-121.

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

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