

Oxytocin antiparallel dimer

Cat. No.:	HY-P3222
CAS No.:	20054-93-7
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 Cys6;Chain1 Cys6 to Chain2 Cys1)
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)

BIOLOGICAL ACTIVITY

Description	Oxytocin antiparallel 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 (LD ₅₀ =43 mg/kg) is less than that of oxytocin (LD ₅₀ =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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