

## Oxytocin parallel dimer TFA

Cat. No.:	HY-P3215A
Molecular Formula:	C <sub>88</sub> H <sub>133</sub> F <sub>3</sub> N <sub>24</sub> O <sub>26</sub> S <sub>4</sub>
Molecular Weight:	2128.4
Sequence Shortening:	Sequence 1:CYIQNCPLG-NH <sub>2</sub> ;Sequence 2:CYIQNCPLG-NH <sub>2</sub> (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)

### BIOLOGICAL ACTIVITY

Description	Oxytocin parallel dimer TFA is the disulfide-bridged homo peptide dimer. Oxytocin dimer has oxytocin and vasopressin-like activity with less toxic than oxytocin <sup>[1][2]</sup> .
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 <sup>[1]</sup> . 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 <sub>50</sub> =43 mg/kg) is less than that of oxytocin (LD <sub>50</sub> =25 mg/kg) in rats <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. 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.

[2]. Berde B, et al. Some pharmacological properties of oxytocin-dimers (α+ β)[J]. Experientia, 1971, 27: 1304-1305.

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

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