

## (Val3,Pro8)-Oxytocin

Cat. No.:	HY-P5017
CAS No.:	2134138-89-7
Molecular Formula:	C <sub>41</sub> H <sub>60</sub> N <sub>12</sub> O <sub>12</sub> S <sub>2</sub>
Molecular Weight:	977.12
Sequence:	Cys-Tyr-Val-Gln-Asn-Cys-Pro-Pro-Gly-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys6)
Sequence Shortening:	CVVQNCPPG-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys6)
Target:	Oxytocin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

(Val3,Pro8)-Oxytocin is the Gq-dependent pathway agonist. (Val3,Pro8)-Oxytocin is also a weaker agonist for the  $\beta$ -arrestin engagement and endocytosis toward the oxytocin receptor (OXTR)<sup>[1]</sup>.

### REFERENCES

[1]. Parreiras-E-Silva LT, et, al. Functional New World monkey oxytocin forms elicit an altered signaling profile and promotes parental care in rats. Proc Natl Acad Sci U S A. 2017 Aug 22;114(34):9044-9049.

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

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