

## [Asp5]-Oxytocin

Cat. No.:	HY-P3217
CAS No.:	65907-78-0
Molecular Formula:	C <sub>43</sub> H <sub>65</sub> N <sub>11</sub> O <sub>13</sub> S <sub>2</sub>
Molecular Weight:	1008.17
Sequence Shortening:	CYIQDCPLG-NH2 (Disulfide bridge:Cys1-Cys6)
Target:	Oxytocin Receptor
Pathway:	GPCR/G Protein
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

<b>Description</b>	[Asp5]-Oxytocin is the first 5-position neurohypophyseal hormone analogue possessing significant biological activity. [Asp5]-Oxytocin causes uterine contractions in vitro, enhanced by Mg <sup>2+</sup> . [Asp5]-Oxytocin has the ability of rat uteroconstrictor, avian vasodilator, and rat antidiuretic <sup>[1]</sup> .
<b>In Vitro</b>	[Asp5]-Oxytocin retains not only a high affinity for the uterotonic receptor, but also an intrinsic activity identical with that of oxytocin <sup>[1]</sup> . [Asp5]-Oxytocin displays an increasing intrinsic activity enhanced by 1 mM Mg <sup>2+</sup> <sup>[1]</sup> . [Asp5]-Oxytocin exerts the same potencies of rat uterotonic, avian vasodepressor, and rat antidiuretic with 20.3, 41, and 0.14 units/mg dose <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Walter R, et al. [5-Aspartic acid]-oxytocin: first 5-position neurohypophyseal hormone analogue possessing significant biological activity. J Am Chem Soc. 1978;100(3):792-793.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA