



LKT Laboratories, Inc.

Oxytocin

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Product Information

Product ID O9497
CAS No. 50-56-6
Chemical Name L-Cysteiny-L-tyrosyl-L-isoleucyl-L-glutaminy-L-asparaginy-L-cysteiny-L-prolyl-L-leucylglycinamide cyclic (1-6)-disulfide
Synonym Ocytocin, Interocine-S, Perlacton, Pitocin, Syntocinon, Orasthin, Oxystin, Partocon.

Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH₂
(Disulfide bridge Cys1-Cys6)

Formula C₄₃H₆₆N₁₂O₁₂S₂
Formula Wt. 1007.2
Melting Point 192-194 °C
Purity ≥95%
Solubility Soluble in water (1 mg/mL), 1-butanol or 2-butanol, ethanol, DMSO, DMF.

Bulk quantities available upon request

| Product ID | Size |
|------------|--------|
| O9497 | 5 mg |
| O9497 | 25 mg |
| O9497 | 100 mg |
| O9497 | 1 g |

Store Temp -20 °C
Ship Temp Ambient

Description Oxytocin is an endogenous peptide neurohormone that does not cross the blood-brain barrier. Oxytocin binds the oxytocin receptor (OXTR) and exhibits neuromodulatory, antinociceptive, antidepressant, anxiolytic, and other activities; it is involved with feelings of trust, memory, intimacy, and fidelity. Oxytocin also inhibits acid-sensing ion channels and may be used as a biomarker of bone mineral density.

References Breuil V, Panaia-Ferrari P, Fontas E, et al. Oxytocin, a new determinant of bone mineral density in post-menopausal women: analysis of the OPUS cohort. *J Clin Endocrinol Metab.* 2014 Apr;99(4):E634-41. PMID: 24446658.

Yuen KW, Garner JP, Carson DS, et al. Plasma oxytocin concentrations are lower in depressed vs. healthy control women and are independent of cortisol. *J Psychiatr Res.* 2014 Apr;51:30-6. PMID: 24405552.

Qiu F, Qiu CY, Cai H, et al. Oxytocin inhibits the activity of acid-sensing ion channels through the vasopressin-1a receptor in primary sensory neurons. *Br J Pharmacol.* 2014 Feb 15. [Epub ahead of print]. PMID: 24641084.

Evans SL, Dal Monte O, Noble P, et al. Intranasal oxytocin effects on social cognition: A critique. *Brain Res.* 2013 Nov 14. [Epub ahead of print]. PMID: 24239931.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.