

Oxytocin Human

Item Number	rAP-2545
Synonyms	OT, OXT, OT-NPI, Neurophysin 1, MGC126890, MGC126892.
Description	Oxytocin Human Synthetic is a single, non-glycosylated, polypeptide chain containing 9 amino acids and having a molecular mass of 1007.2 Dalton. Oxytocin has a molecular formula of C ₄₃ H ₆₆ N ₁₂ O ₁₂ S ₂ . The OT is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01178
Amino Acid Sequence	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ .
Source	
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Oxytocin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Neurophysin 1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The Oxytocin was lyophilized from a concentrated (1mg/ml) solution with no additives. Greater than 99.0% as determined by RP-HPLC.
Application	
Solubility	It is recommended to reconstitute the lyophilized Oxytocin in sterile 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**