

## OXT

### Synthetic Human Oxytocin

<b>Catalog No.</b>	CRO300A	<b>Quantity:</b>	5 mg
	CRO300B		25 mg
	CRO300C		100 mg

**Alternate Names:** OT, OT-NPI, Neurophysin 1

**Description:** Oxytocin is a posterior pituitary hormone which is synthesized as an inactive precursor in the hypothalamus along with its carrier protein neurophysin I. Together with neurophysin, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis, where it is either stored or secreted into the bloodstream. The precursor seems to be activated while it is being transported along the axon to the posterior pituitary. This hormone contracts smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation and complex sexual and maternal behavior, as well as in the regulation of water excretion and cardiovascular functions.

**Oxytocin is only provided in a glass vial.**

**UniProt ID:** P01178

**Gene ID:** 5020

**Molecular Mass:** 1007.2 Da (9 aa) monomer

**Formulation:** Lyophilized from a sterile filtered, 1 mg/ml solution, with no additives.

**Purity:** >99.0% as determined by RP-HPLC analysis.

**Purification:** Purified by proprietary chromatographic techniques.

**Specific Activity:** > 480 IU/mg, lot specific

**Amino Acid Sequence:** Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH<sub>2</sub>

**Reconstitution:** **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration not less than 100 µg/mL. After complete solubilization, the product can be further diluted in other aqueous solutions.

**Storage & Stability:** Upon receipt, store at -20°C to -80°C. After reconstitution, peptide may be stored at 2-8°C for 1 week. For longer term, store in working aliquots at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Avoid repeated freeze-thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

