

Recombinant Human Oxytocin, Prepropeptide

Cat. No. OXT-313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Source	Human
Description	Human Oxytocin stimulates uterine smooth muscle contractions indirectly and stimulates the mammary glands to increase lactation without increasing the production of milk.
Form	The Oxytocin was lyophilized from a concentrated (1 mg/ml) solution with no additives.
Purity	Greater than 98.0% as determined by RP-HPLC.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Oxytocin in sterile 18Mμ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ .
Storage	Lyophilized Oxytocin although stable at room temperature for 3 weeks, should be

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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.

Pathways

Class A/1 (Rhodopsin-like receptors); G alpha (q) signalling events; GPCR downstream signaling; GPCR ligand binding; Myometrial Relaxation and Contraction Pathways; Peptide ligand-binding receptors; Signaling by GPCR; Vasopressin-like receptors

GENE INFORMATION

Gene Name	OXT oxytocin, prepropeptide [Homo sapiens]
Official Symbol	OXT
Synonyms	OXT; OT; OT-NPI; MGC126890; MGC126892; oxytocin-neurophysin 1; neurophysin I; OTTHUMP00000030079; oxytocin, prepro- (neurophysin I); oxytocin-neurophysin I, preproprotein; oxytocin; prepropeptide
Gene ID	5020
mRNA Refseq	NM_000915
Protein Refseq	NP_000906
MIM	167050
UniProt ID	P01178
Chromosome	20p13

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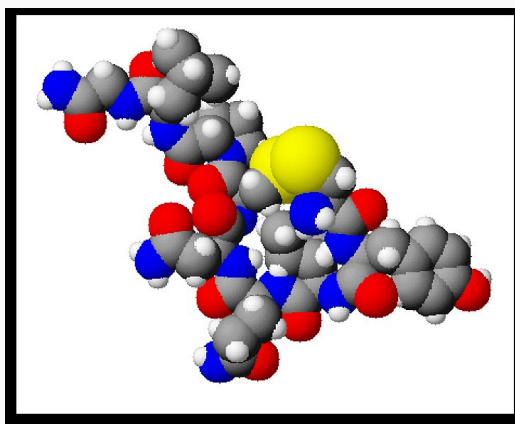
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Location

Function


neurohypophyseal hormone activity; oxytocin receptor binding; protein binding

**Systematic (IUPAC)
name**



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