

Native Human Oxytocin, Prepropeptide

Cat. No. OXT-5360H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human OXT is synthetic.
Species	Human
Source	Synthetic
Description	HumanOXT (Pitocin/Syntocinon) stimulates uterine smooth muscle contractions indirectly and stimulates the mammary glands to increase lactation without increasing the production of milk.
Form	Lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ .
Purity	Greater than 98.0% as determined by: Analysis by RP-HPLC and Mass Spectral Analysis (MALDI-TOF exhibits correct MW).
Storage	Lyophilized Oxytocin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Oxytocin 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). Avoid freeze-thaw cycles.
Pathways	Class A/1 (Rhodopsin-like receptors); G alpha (q) signalling events; GPCR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

downstreamsignaling; Myometrial Relaxation and Contraction Pathways;
Peptideligand-binding receptors; Signal Transduction; Signaling by
GPCR;Vasopressin-like receptors

GENE INFORMATION

Gene Name	OXT oxytocin, prepropeptide [Homosapiens]
Official Symbol	OXT
Synonyms	OXT; oxytocin, prepropeptide;OT; OT-NPI; MGC126890; MGC126892; oxytocin-neurophysin 1; neurophysin I;OTTHUMP00000030079; oxytocin, prepro-(neurophysin I); oxytocin-neurophysinI, preproprotein
Gene ID	5020
mRNA Refseq	NM_000915
Protein Refseq	NP_000906
MIM	167050
UniProt ID	P01178
Chromosome Location	20p13
Function	neurohypophysealhormone activity; oxytocin receptor binding

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