

Oxytocin Active Protein | OT active protein

Human Oxytocin

CATALOG #
AAA38351

PRODUCT SYNONYMS

Oxytocin; Human Oxytocin; OT Human; Oxytocin Human; OT; OXT; OT-NPI; Neurophysin 1; MGC126890; MGC126892; OT active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 99.0% as determined by RP-HPLC.
Form/Format	The Oxytocin was lyophilized from a concentrated (1 mg/ml) solution with no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Cys-Tyr-Ill e-Gln-Asn- Cys-Pro-Le u-Gly-NH2
Sequence Length	125
Specific Activity	1mg of Oxytocin has activity greater than 480IU.
Solubility	It is recommended to reconstitute the lyophilized Oxytocin in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized Oxytocin although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Neurophysin 1 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for OT active protein	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 C43H66N12O12S2. The OT is purified by proprietary chromatographic techniques. Introduction: Human Oxytocin stimulates uterine smooth muscle contractions indirectly and stimulates the mammary glands to increase lactation without increasing the production of milk.
Product Categories/Family for OT active protein	Hormones; Hormones

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505537
NCBI GeneID	5020
NCBI Accession #	NP_000906.1
NCBI GenBank Nucleotide #	NM_000915.3
UniProt Accession #	P01178 ; Q3MIG0
Molecular Weight	12,722 Da
NCBI Official Full Name	oxytocin-neurophysin 1 preproprotein

NCBI Official Synonym Full Names	oxytocin/neurophysin I prepropeptide
NCBI Official Symbol	OXT
NCBI Official Synonym Symbols	OT; OT-NPI; OXT-NPI
NCBI Protein Information	oxytocin-neurophysin 1; neurophysin I; oxytocin, prepro- (neurophysin I); oxytocin, prepropeptide; oxytocin-neurophysin I, preproprotein
UniProt Protein Name	Oxytocin-neurophysin 1
UniProt Gene Name	OXT
UniProt Synonym Gene Names	OT; OT-NPI
UniProt Entry Name	NEU1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ot-active-protein/oxytocin/38351>