

OXT Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71766
Synonyms:	OXT; OT; Oxytocin-neurophysin 1
Species:	Human
Source:	P. pastoris
Accession:	P01178 (32A-125R)
Gene ID:	5020
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	A A P D L D V R K C L P C G P G G K G R C F G P N I C C A E E L G C F V G T A E A L R C Q E E N Y L P S P C Q S G Q K A C G S G G R C A V L G L C C S P D G C H A D P A C D A E A T F S Q R
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, pH 7.4 or 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	OXT, or oxytocin, exerts its physiological effects through binding to neurophysin 1 and subsequently interacting with the oxytocin receptor (OXTR). This interaction leads to the contraction of smooth muscles in both the uterus and mammary gland. Oxytocin plays a crucial role in mediating uterine contractions during labor and facilitating milk ejection during breastfeeding by modulating the activity of the OXTR.
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Caution: Product has not been fully validated for medical applications. For research use only.

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