Recombinant Human OXT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OXT-5670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OXT MS Standard C13 and N15-labeled recombinant protein (NP_000906) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a precursor protein that is processed to produce oxytocin and neurophysin I. 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 behaviour, as well as in the regulation of water excretion and cardiovascular functions.
Molecular Mass	12.72 kDa
AA Sequence	MAGPSLACCLLGLLALTSACYIQNCPLGGKRAAPDLDVRKCLPCGPGGKGRCFGPN ICCAEELGCFVGTAEALRCQEENYLPSPCQSGQKACGSGGRCAVLGLCCSPDGCH ADPACDAEATFSQRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

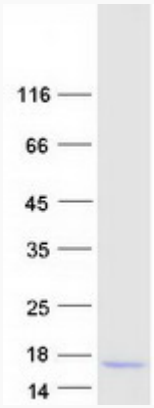
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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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SDS-PAGE	

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