

Product datasheet for PH324226

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Oxytocin neurophysin 1 (OXT) (NM_000915) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: OXT MS Standard C13 and N15-labeled recombinant protein (NP_000906)

Species: Human **HEK293 Expression Host: Expression cDNA Clone**

or AA Sequence:

RC224226

Predicted MW:

12.72 kDa

>RC224226 representing NM_000915 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MAGPSLACCLLGLLALTSACYIONCPLGGKRAAPDLDVRKCLPCGPGGKGRCFGPNICCAEELGCFVGTA

EALRCQEENYLPSPCQSGQKACGSGGRCAVLGLCCSPDGCHADPACDAEATFSQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stable for 3 months from receipt of products under proper storage and handling conditions. Stability:

RefSeq: NP 000906

RefSeg Size: 512 RefSeq ORF: 375

Synonyms: OT; OT-NPI; OXT-NPI

Locus ID: 5020

UniProt ID: P01178, X5D7M6

Cytogenetics: 20p13





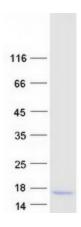
Summary:

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. [provided by RefSeq, Dec 2013]

Protein Families:

Secreted Protein

Product images:



Coomassie blue staining of purified OXT protein (Cat# [TP324226]). The protein was produced from HEK293T cells transfected with OXT cDNA clone (Cat# [RC224226]) using MegaTran 2.0 (Cat# [TT210002]).