

# Recombinant human Neurokinin B protein

Catalog Number: ATGP0362

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

17-121aa

**UniProt No.**

Q9UHF0

**NCBI Accession No.**

NP\_037383

**Alternative Names**

ZNEuROK1, Neuromedin K, Tachykinin3, TAC3, NKB, NKNB, Gamma tachykinin 3, Neurokinin B like protein, Neurokinin B protein, Neurokinin beta, NeurokininB, NeuromedinK, Preprotachykinin B, PreprotachykininB, PRO 1155, PRO1155, TAC 3, Tachykinin 3, Tachykinin3, ZNEuROK 1.

## PRODUCT SPECIFICATION

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**Molecular Weight**

13.8 kDa (125aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Neurokinin B, a member of the substance P-related tachykinin family, was previously known to be present in the same hypothalamic neurons as kisspeptin. This protein and its receptor are critical switches of regulator of human puberty, governed by the brain through the release of the hormone GnRH (gonadotropin-releasing hormone) which starts a series of processes that ultimately leads to the production of sex hormones. Many

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studies suggest new approaches to the pharmacological control of human reproduction and sex hormone-related diseases. Recombinant human Neurokinin B, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>QSFQAVCKE PQEEVPPGGG RSKRDPDLYQ LLQRLFKSHS SLEGLLKALS  
QASTDPKEST SPEKRDMHDF FVGLMGKRSV QPDSPTDVNQ ENVPSFGILK YPPRAE

## General References

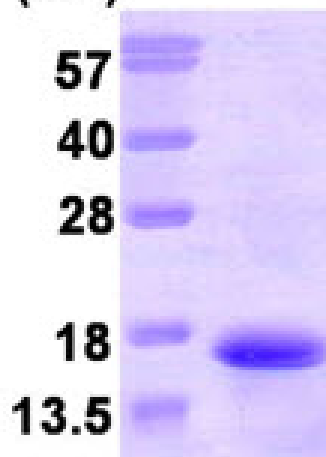
Topaloglu AK., et al. (2009). *Nat Genet.* 41(3):354-8

Rance NE., et al. (2009). *Peptides.* 30(1):111-22.

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)