

# Recombinant human NTS protein

Catalog Number: ATGP1846

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-170aa

### UniProt No.

P30990

### NCBI Accession No.

NP\_006174

### Alternative Names

Neurotensin neuromedin N, Neurotensin, neuromedin N, NMN-125, NN, NT, NT/N, NTS1

## PRODUCT SPECIFICATION

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### Molecular Weight

19.9 kDa (172aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

Neurotensin, also known as NTS, is a common precursor for two peptides, neuromedin N and neurotensin. Neurotensin is a secreted tridecapeptide, which is widely distributed throughout the central nervous system, and may function as a neurotransmitter or a neuromodulator. It may be involved in dopamine-associated pathophysiological events, in the maintenance of gut structure and function, and in the regulation of fat metabolism. Tissue-specific processing may lead to the formation in some tissues of larger forms of neuromedin N and neurotensin. The large forms may represent more stable peptides that are also biologically active.

## Recombinant human NTS protein

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Recombinant human NTS protein, fused to His-tag at N-terminus, was expressed in E. coli.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSHM>SDSEE EMKALEADFL TNMHTSKISK AHVPSWKMTL LNVCSLVNLL  
NSPAEETGEV HEEELVARRK LPTALDGFSL EAMLTIIQLH KICHSRAFQH WELIQEDILD TGNDKNGKEE VIKRKIPYIL  
KRQLYENKPR RPYILKRDSY YY

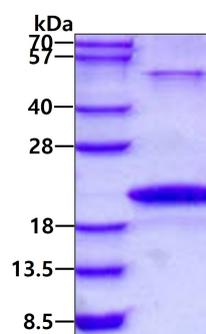
### General References

Bean A.J., et al. (1992) Neuroscience. 50:259-268

Quistgaard E.M., et al. (2009) Nat. Struct. Mol. Biol. 16:96-98

## DATA

### SDS-PAGE



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