

Recombinant human NTS protein

Catalog Number: ATGP1846

PRODUCT INFORMATION

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

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

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.

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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 LNVCSLVNNL
NSPAEETGEV HEEELVARRK LPTALDGFSL EAMLTIIQLH KICHSRAFQH WELIQEDILD TGNDKNGKEE VIKRKIPYIL
KRQLYENKPR RPYILKRDSY YY

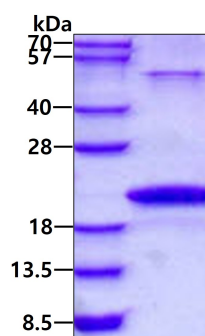
General References

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.