

# Recombinant Human NTS, His-tagged

**Cat. No.** NTS-7064H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human NTS protein, fused to His-tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 24-170aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea,10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 19.9 kDa (172aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMSDSEE EMKALEADFL TNMHTSKISK<br>AHVPSWKMTL LNVCSLVNNL NSPAEETGEV HEEELVARRK LPTALDGFSL<br>EAMLTIQQLH KICHSRAFQH WELIQEDILD TGNDKNGKEE VIKRKIPYIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                            |                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | KRQLYENKPR RPYILKRDSY YY                                                                                                                              |
| <b>Purity</b>              | >90% by SDS - PAGE                                                                                                                                    |
| <b>Applications</b>        | SDS-PAGE                                                                                                                                              |
| <b>Storage</b>             | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>       | 1 mg/ml                                                                                                                                               |
| <b>GENE INFORMATION</b>    |                                                                                                                                                       |
| <b>Gene Name</b>           | NTS neurotensin [ Homo sapiens ]                                                                                                                      |
| <b>Official Symbol</b>     | NTS                                                                                                                                                   |
| <b>Synonyms</b>            | NTS; neurotensin; neurotensin/neuromedin N; neuromedin N; NN; NT; NT/N; NTS1; NMN-125;                                                                |
| <b>Gene ID</b>             | 4922                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_006183                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_006174                                                                                                                                             |
| <b>MIM</b>                 | 162650                                                                                                                                                |
| <b>UniProt ID</b>          | P30990                                                                                                                                                |
| <b>Chromosome Location</b> | 12q21                                                                                                                                                 |

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**Pathway**

Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Peptide ligand-binding receptors, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;

**Function**

neuropeptide hormone activity;

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