

Recombinant Human NTS, His-tagged

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

SPECIFICATION

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

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	KRQLYENKPR RPYILKRDSY YY
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	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.
Concentration	1 mg/ml
GENE INFORMATION	
Gene Name	NTS neurotensin [Homo sapiens]
Official Symbol	NTS
Synonyms	NTS; neurotensin; neurotensin/neuromedin N; neuromedin N; NN; NT; NT/N; NTS1; NMN-125;
Gene ID	4922
mRNA Refseq	NM_006183
Protein Refseq	NP_006174
MIM	162650
UniProt ID	P30990
Chromosome Location	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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