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## Product Data Sheet

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Product Name: NTS Human  
 Cat. No.: GP24072  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NTS; Neurotensin; NT/N; NMN-125; NTS1; NN; Neurotensin/Neuromedin N; NT.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSDSEE EMKALEADFL TNMHTSKISK AHVPSWKMTL LNVCSLVNNL NSPAEETGEV HEEELVARRK LPTALDGFSL EAMLTIIYQLH KICHSRAFQH WELIQEDILD TGNDKNGKEE VIKRKIPYIL KRQLYENKPR RPYILKRDSY YY.		
Formulation	NTS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

### Introduction

Neurotensin (NTS) is a common precursor for 2 peptides, neuromedin N and neurotensin. Neurotensin is a secreted tridecapeptide, which is generally distributed throughout the central nervous system, and may serve as a neurotransmitter or a neuromodulator. NTS is involved in the maintenance of gut structure and function, and in the regulation of fat metabolism. Tissue-specific processing may initiate the formation in some tissues of larger forms of neuromedin N and neurotensin. The large forms may embody more stable peptides which are also biologically active.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NTS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 172 amino acids (24-170 a.a.) and having a molecular mass of

**Caution: Product has not been fully validated for medical applications. For research use only.**

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19.9kDa.NTS is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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