

**HUMAN NTS PROTEIN, HFC TAG****Cat.#:** 11580**Product Name:** Human NTS Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Neurotensin;neuromedin N**Target:** NTS**UNIPROT ID:** P30990**Description:** Recombinant human NTS protein with C-terminal human Fc tag

**Background:** This gene encodes 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. Neurotensin also exhibits antimicrobial activity against bacteria and fungi. 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. [provided by RefSeq, Oct 2014]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 40.4 kDa after removal of the signal peptide. The apparent molecular mass of NTS-hFc is approximately 35–55 kDa due to glycosylation.

**Molecular Characterization:** NTS(Ser24-Leu148) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

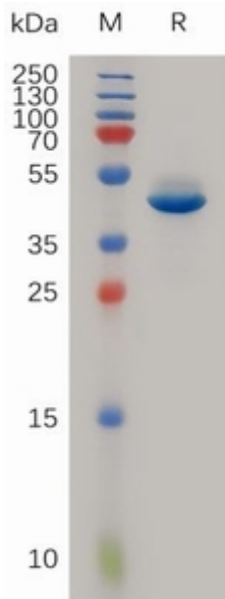


Figure 1. Human NTS Protein, hFc Tag on SDS-PAGE under reducing condition.