

Human NTS1 Protein

Cat. No. NTS-HM201



Description

Source	Recombinant Human NTS1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Ser24-Leu163.
Accession	P30990
Molecular Weight	The protein has a predicted MW of 42.9 kDa. Due to glycosylation, the protein migrates to 48-53 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

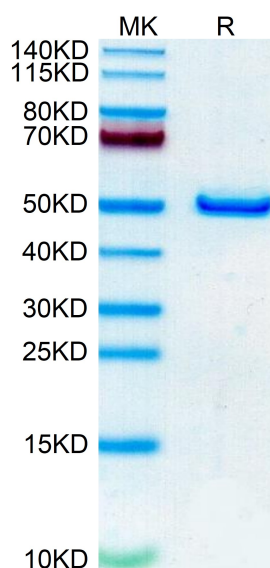
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Neurotensin (NT) is an endogenous 13 amino acid neuropeptide with profound opioid-independent analgesic effects. This role of NT is thought to be mediated by both neurotensin receptor subtype 1 (NTS1) and neurotensin receptor subtype 2 (NTS2). NT and its receptors are widely distributed in the pain circuits in central nervous system.

Assay Data

Bis-Tris PAGE



Human NTS1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

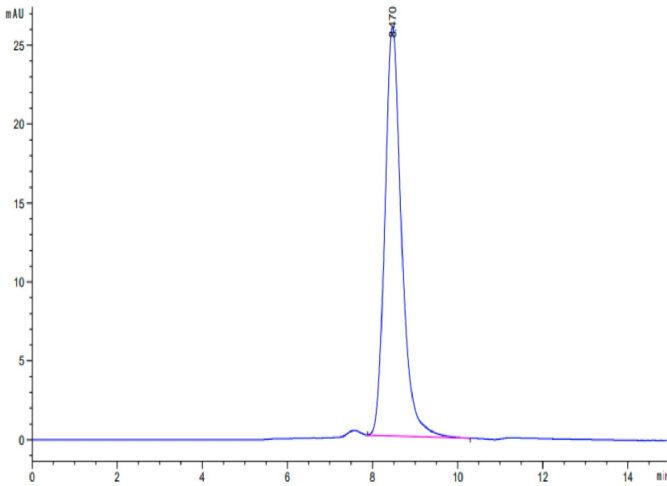
SEC-HPLC

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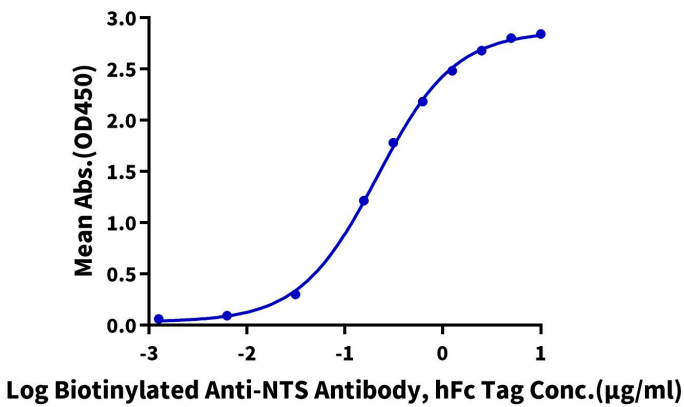
Assay Data



The purity of Human NTS1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human NTS1, hFc Tag ELISA
0.5µg Human NTS1, hFc Tag Per Well



Immobilized Human NTS1, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-NTS Antibody, hFc Tag with the EC50 of 0.21µg/ml determined by ELISA.