#### **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 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

#### Formulation and Storage

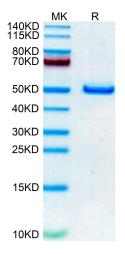
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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.

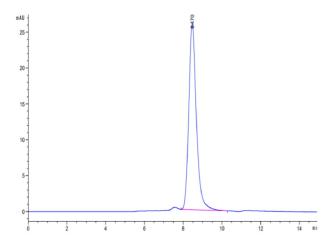
## **Assay Data**

#### **Bis-Tris PAGE**



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

### SEC-HPLC



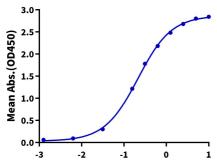
The purity of Human NTS1 is greater than 95% as determined by SEC-HPLC.



#### **Assay Data**

**ELISA Data** 

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



Log Biotinylated Anti-NTS Antibody, hFc Tag Conc.(µg/ml)

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