

NTS1 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	NTR1;NT;NTRR;NTRH;NTS1;NTSR1;NT/N;NTS;NMN-125;NN;NTR
Protein Construction:	Ser24-Leu163
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q2PG57
Molecular Weight:	18.84 kDa (predicted). Due to glycosylation, the protein migrates to 20-25 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Crystal structures of neurotensin receptor subtype 1 (NTS1) allowed us to visualize the binding mode of the endogenous peptide hormone neurotensin and its pharmacologically active C-terminal fragment NT(8-13) within the orthosteric binding pocket of NTS1.

Reference

Kling RC, et al. Structure-based exploration of an allosteric binding pocket in the NTS1 receptor using bitopic NT(8-13) derivatives and molecular dynamics simulations. J Mol Model. 2019 Jun 17;25(7):193. doi: 10.1007/s00894-019-4064-x. PMID: 31209646.

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