

Biotinylated Human CNTF R alpha Protein, His,Avitag™

Catalog # CNR-H82Q3



BIOSYSTEMS
Acro

Synonym

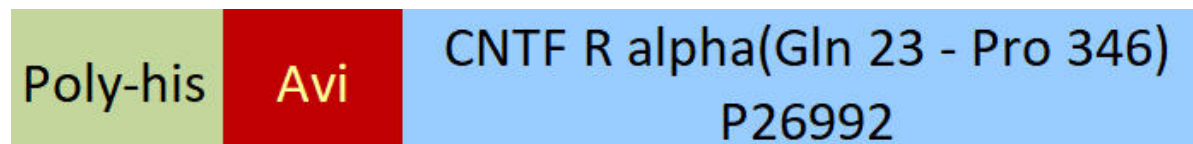
CNTFR, CNTF R alpha

Source

Biotinylated Human CNTF R alpha Protein, His,Avitag (CNR-H82Q3) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Pro 346 (Accession # [P26992](#)).

Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 39.8 kDa. The protein migrates as 53-63 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

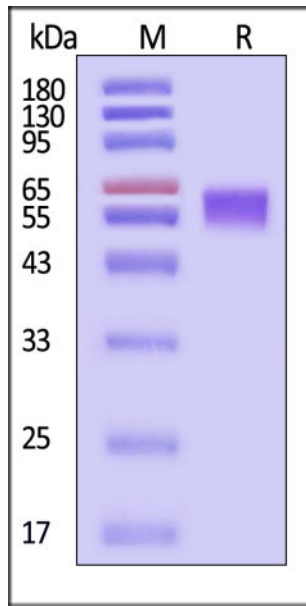
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Biotinylated Human CNTF R alpha Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

CNTF receptor alpha (CNTFR) is a specialized protein primarily expressed in the nervous system and skeletal muscle. Unlike many receptors, it lacks a transmembrane domain and anchors to the cell surface via a GPI linkage. It functions as a crucial signaling component that binds Ciliary Neurotrophic Factor, subsequently recruiting gp130 and LIFR to initiate the JAK/STAT pathway. This process is vital for promoting neuronal survival, guiding motor neuron development, and regulating muscle regeneration.

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