



## Synonym

tumor necrosis factor receptor superfamily member 16; CD271; Gp80-LNGFR; member 16 nerve growth factor receptor; p75 ICD; p75 NTR

## Source

Human NGFR Protein, Fc Tag(NGR-H5254) is expressed from human 293 cells (HEK293). It contains AA Lys 29 - Asn 250 (Accession # [P08138-1](#)).

Predicted N-terminus: Lys 29

## Molecular Characterization

NGFR(Lys 29 - Asn 250) P08138-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 50.0 kDa. The protein migrates as 60-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

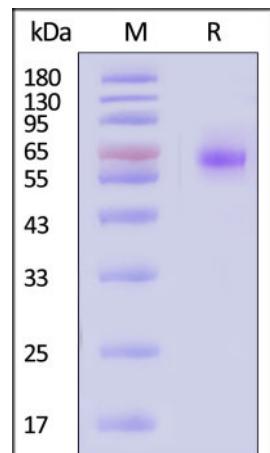
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

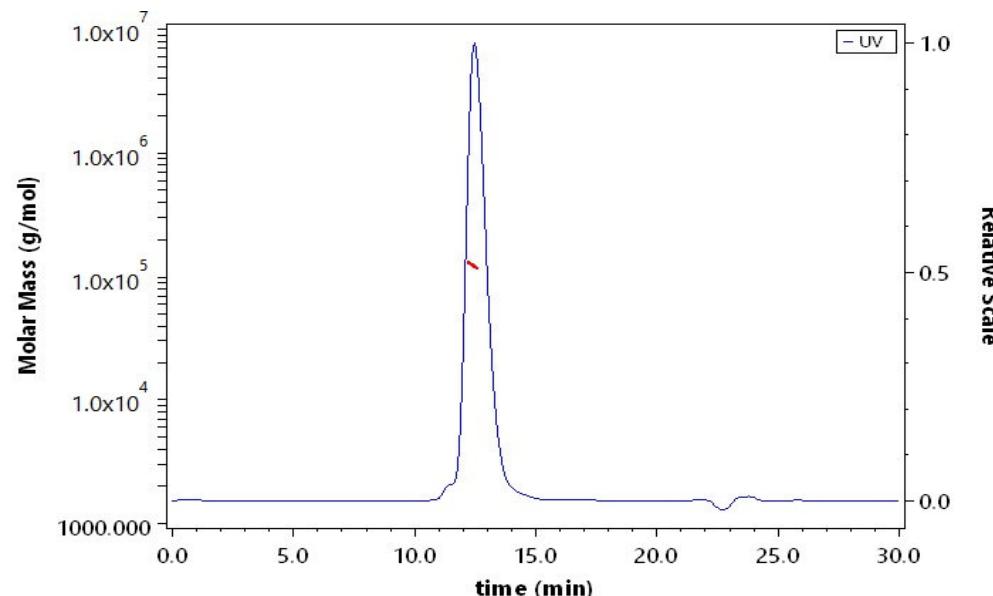
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human NGFR Protein, Fc Tag 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](#)).

## SEC-MALS



The purity of Human NGFR Protein, Fc Tag (Cat. No. NGR-H5254) is more than 95% and the molecular weight of this protein is around 115-135 kDa verified by SEC-MALS.

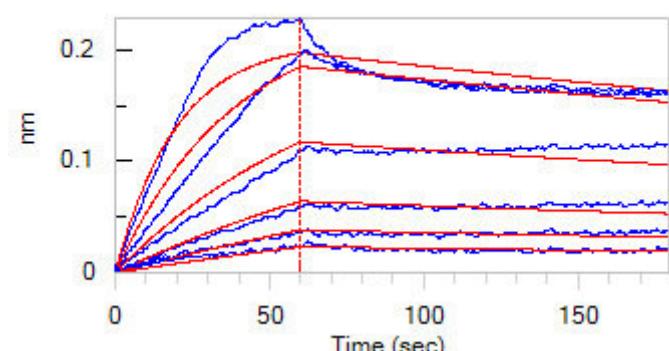
[Report](#)

## Bioactivity-BLI

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Loaded Human NGFR Protein, Fc Tag (Cat. No. NGR-H5254) on Protein A Biosensor, can bind Human NT-4, Tag Free (Cat. No. NT4-H5114) with an affinity constant of 1.64 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

## Background

The p75 neurotrophin receptor (p75NTR) was originally identified as a low-affinity receptor for neurotrophins(NGF R).p75NTR is a neurotrophic factor receptor. Neurotrophic factor receptors bind Neurotrophins including Nerve growth factor, Neurotrophin-3, Brain-derived neurotrophic factor, and Neurotrophin-4. All neurotrophins bind to p75NTR. This also includes the immature pro-neurotrophin forms. Neurotrophic factor receptors, including p75NTR, are responsible for ensuring a proper density to target ratio of developing neurons, refining broader maps in development into precise connections. p75NTR is involved in pathways that promote neuronal survival and neuronal death.

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