

For Research Use Only

Recombinant Human NGFR/TNFRSF16 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg4829



Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human NGFR protein Lys29-Asn250 (Accession# P08138-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
4804

Accession:
P08138-1

Predicted Molecular Mass:
49.8 kDa

SDS-PAGE:
60-80 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

NGFR, also named as p75 ICD and CD271, a member of the tumor necrosis factor superfamily. It is highly expressed in both neurons and glial cells during CNS development and after brain injury, whereas in normal adulthood, it is present only in specific brain regions such as neurons and astrocytes of hippocampal and especially in the cholinergic neurons of the basal forebrain. NGFR can mediate cell survival or cell death, can promote or inhibit axonal growth, and can facilitate or attenuate proliferation, depending on the cell context.

References

- 1.Cagnolini AB and Friedman WJ. (2008) Trends Neurosci. 31(2):99-104.
- 2.Chen M. et al. (2022) Cell Mol Neurobiol. 42(4):1153-1166.
- 3.Yang CR. et al. (2022) FASEB J. 36(3):e22180.
- 4.Ali NH. Et al. (2024) Mol Neurobiol. 61(5):2469-2480.
- 5.Xie B. et al. (2023) Front Cell Dev Biol. 11:1283878.

Synonyms

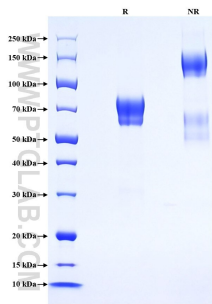
NGFR, CD271, Gp80 LNGFR, Gp80-LNGFR, Low-affinity nerve growth factor receptor

For technical support and original validation data for this product please contact

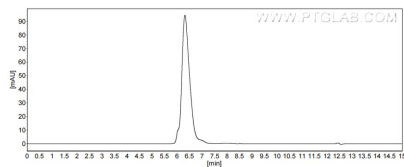
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Selected Validation Data



Purity of Recombinant Human NGFR was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human NGFR/TNFRSF16 was greater than 90% as determined by SEC-HPLC.