

For Research Use Only

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

Catalog Number: Eg3254



Basic Information

Species:
Rat

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 Rat p75NTR protein Lys30-Ile253 (Accession# P07174) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24596

Accession:
P07174

Predicted Molecular Mass:
50.2 kDa

SDS-PAGE:
65-90 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

p75 neurotrophin receptor (p75NTR), a member of the tumor necrosis factor superfamily, is a transmembrane protein with 75 kDa molecular weight. p75NTR 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. p75NTR is an important receptor for the role of neurotrophins in survival and death of neurons during development and after nerve injury. p75NTR 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. Cragolini 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

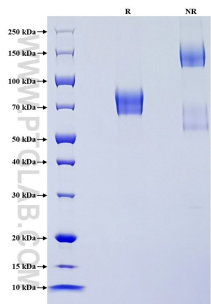
CD271, Gp80-LNGFR, Low affinity neurotrophin receptor p75NTR, Low-affinity nerve growth factor receptor, Low-affinity nerve growth factor receptor p75NGFR

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

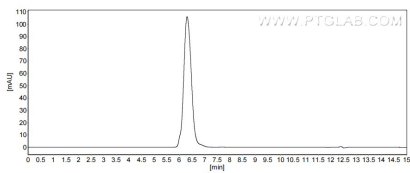
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Rat p75NTR 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 Rat NGFR/TNFRSF16 was greater than 90% as determined by SEC-HPLC.