

Recombinant Human NRG4 protein (rFc Tag)

Catalog Number: Eg3693

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human NRG4 protein Pro2-Phe62 (Accession# Q8WWG1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

145957

Accession:

Q8WWG1

Predicted Molecular Mass:

33.0 kDa

SDS-PAGE:

33-45 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

Neuregulin 4 (Nrg4), a member of the epidermal growth factor (EGF) family of extracellular ligands, is expressed in multiple organs with the highest expression levels in brown adipose tissue. Neuregulin 4 is a secreted adipokine recently identified as playing an important role in modulating systemic energy metabolism and in the development of metabolic disorders in rodent and human obesity, including type 2 diabetes and non-alcoholic fatty liver disease (NAFLD). Nrg4 attenuates hepatic lipogenic signaling and preserves glucose and lipid homeostasis in obesity.

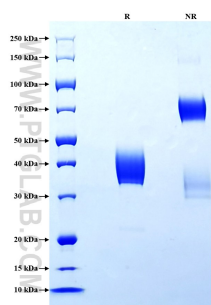
References

- 1.Chen Z, et al. (2017) Mol. Metab. 6, 863-872.
- 2.Archilla-Ortega A, et al. (2021) Int. J. Mol. Sci. 22,12960.
- 3.Comas F, et al. (2019) Front. Physiol. 10, 39.
- 4.Gwag T, et al. (2024) JHEP Rep. 6(4):101019.

Synonyms

NRG4, HRG4, neuregulin 4, Neuregulin-4, NRG 4

Selected Validation Data



Purity of Recombinant Human NRG4 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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.