

Human NRG1 (His Tag) recombinant protein



Catalog Number: 503946

General Information

Gene Name Synonym

Neuregulin-1; Acetylcholine receptor-inducing activity; Breast cancer cell differentiation factor p45; Glial growth factor; Heregulin; Neu differentiation factor; Sensory and motor neuron-derived factor

Protein Construction

A DNA sequence encoding the human NRG1 isoform alpha (Q02297-1) extracellular domain (Ser 20-Lys 241) was fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to biotinylated Human ErbB4-Fc (cat:503621) in functional Elisa.
2. Measured by its ability to biotinylated Rhesus ErbB3-His (Cat:504642) in functional Elisa.
3. Measured by its ability to biotinylated Rhesus ErbB3 (Cat:504643) in functional Elisa.

Purity

> 98 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μ g of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ser 20

Molecular Mass

The secreted recombinant human NRG1 consists of 233 amino acids and has a calculated molecular mass of 25.5kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh NRG1 is approximately 40-45 kDa due to glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

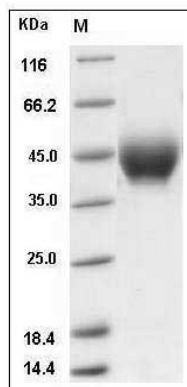
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



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Human NRG1-alpha Protein (His Tag) SDS-PAGE