Human NRG1 (EGF Domain, Fc Tag) recombinant protein

Catalog Number: 503581

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) EGF-like domain (Ser 177-Lys 241) was fused with the Fc region of human IgG1 at the N-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 (Cat:504643) in functional Elisa.

Purity

> 97 % as determined by SDS-PAGE

Endotoxin

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

Stability

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

Predicted N terminal

Glu

Molecular Mass

The recombinant human NRG1(177-241)/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 326 amino acids and has a calculated molecular mass of 35.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 38 kDa.

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

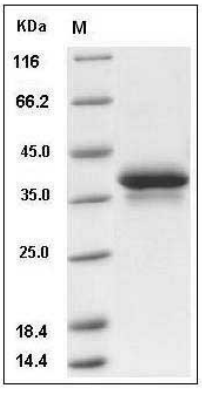
Storage

Store it under sterile conditions at -20℃ to -80℃. 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



Human NRG1-alpha Protein (EGF Domain, Fc Tag)

SDS-PAGE