

# Human NRG1 (EGF Domain, Fc Tag) recombinant protein



Catalog Number: 504011

## 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 EGF-like domain (Thr 176-Lys 246) of human NRG1 isoform beta1 (Q02297-6) 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 binding ability in a functional ELISA.
2. Immobilized Rhesus ErbB3 at 2 µg/mL (100 µl/well) can bind human NRG1 (isoform Beta1), The EC<sub>50</sub> of human NRG1 (isoform Beta1) is 0.58 µg/mL.
3. Immobilized human ErbB3 at 2 µg/mL (100 µl/well) can bind human NRG1 (isoform Beta1), The EC<sub>50</sub> of human NRG1 (isoform Beta1) is 0.43 µg/mL.

### Purity

> 86 % 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°C

### Predicted N terminal

Glu

### Molecular Mass

The recombinant human NRG1<sup>aa176-246</sup>/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 331 amino acids and has a calculated molecular mass of 36.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh NRG1/Fc monomer 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°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.

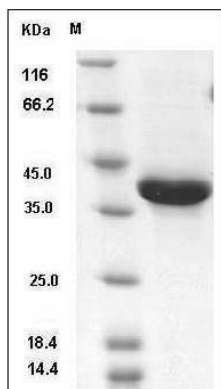
### SDS-PAGE

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Human NRG1-beta 1 Protein (EGF Domain, Fc Tag) SDS-PAGE