

## 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 N-terminal fragment (Ser 2-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 human Erbb3-his (cat: 503568) at 10 µg/mL (100 µl/well) can bind human NRG1 (aa 2-246)-Fc, The EC<sub>50</sub> of human NRG1 (aa 2-246)-Fc is 0.16 µg/mL.
3. Immobilized Rhesus Erbb3-his (cat: 90043-H08H) at 10 µg/mL (100 µl/well) can bind human NRG1 (aa 2-246)-Fc, The EC<sub>50</sub> of human NRG1 (aa 2-246)-Fc is 0.37 µg/mL.

### Purity

> 85 % 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>aa2-246</sup>/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 505 amino acids and has a calculated molecular mass of 55.2 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 75 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

# Human NRG1 (Fc Tag) recombinant protein



Catalog Number: 503891

---

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

