# **Human NRG1 (Fc Tag) recombinant protein**

Catalog Number: 503891



## **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 FLISA
- 2. Immobilized human Erbb3-his (cat: 503568) at  $10 \mu g/mL$  (100  $\mu l/well$ ) can bind human NRG1 (aa 2-246)-Fc, The EC<sub>50</sub> of human NRG1 (aa 2-246)-Fc is 0.16  $\mu g/mL$ .
- 3. Immobilized Rhesus Erbb3-his (cat: 90043-H08H) at 10  $\mu$ g/mL (100  $\mu$ l/well) can bind human NRG1 (aa 2-246)-Fc, The EC<sub>50</sub> of human NRG1 (aa 2-246)-Fc is 0.37  $\mu$ g/mL.

#### **Purity**

> 85 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

## **Stability**

Samples are stable for up to twelve months from date of receipt at -70  $^{\circ}$ C

#### Predicted N terminal

Glu

#### **Molecular Mass**

The recombinant human NRG1?aa2-246?/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

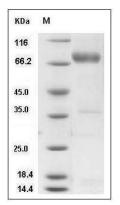
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**

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