

## 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 expressed.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured in a cell proliferation assay using MCF-7 cells.  
The ED<sub>50</sub> for this effect is typically 2-10 ng/mL.

### Purity

> 90 % 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

Ser 2

## Molecular Mass

The recombinant human NRG1 comprises 245 amino acids and has a predicted molecular mass of 26.8 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

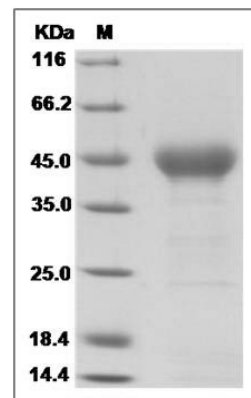
### Storage

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



Human NRG1-beta 1 Protein ( ) SDS-PAGE