## Human NRG1 Beta 1 Protein

Cat. No. NRG-HM201



| Description         |   |
|---------------------|---|
| Source              | Recombinant Human NRG1 Beta 1 Protein is expressed from HEK293 with hFc tag at the N-terminus.                                      |
|                     | It contains Ser2-Lys246.  |
| Accession           | Q02297-6  |
| Molecular<br>Weight | The protein has a predicted MW of 54.00 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result. |
| Endotoxin           | Less than 1EU per μg by the LAL method.   |
| Purity              | > 95% as determined by Bis-Tris PAGE  |
|                     | > 95% as determined by HPLC   |

# Formulation and Storage

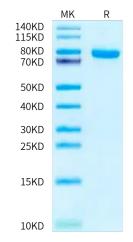
| Formulation    | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
|----------------|---|
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.  |
| Storage        | -20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## **Background**

Neuregulin-1 (NRG-1) is a ligand of the epidermal growth factor receptor (erbB), and its interaction involves activation of the glutamatergic N-methyl-Daspartate receptor, which increases the expression of the  $\beta$ 2 subunit of the  $\gamma$ - aminobutyric acid receptor and subunits of the nicotinic acetylcholine receptor.

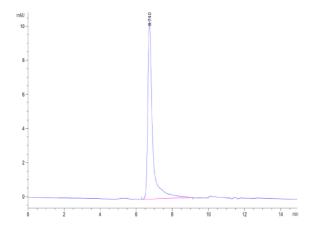
## **Assay Data**

### **Bis-Tris PAGE**



Human NRG1 Beta 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### **SEC-HPLC**



The purity of Human NRG1 Beta 1 is greater than 95% as determined by SEC-HPLC.

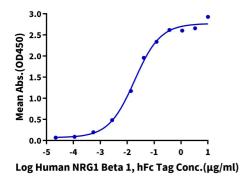
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## **Assay Data**

### **ELISA Data**

### Human NRG1 Beta 1, hFc Tag ELISA

0.2μg Human Her4, His Tag Per Well

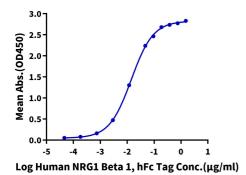


Immobilized Human Her4, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human NRG1 Beta 1, hFc Tag with the EC50 of 18.7ng/ml determined by ELISA (QC Test).

### **ELISA Data**

### Human NRG1 Beta 1, hFc Tag ELISA

0.5μg Human Her3, His Tag Per Well



Immobilized Human Her3, His Tag at  $5\mu g/ml$  (100 $\mu l/well$ ) on the plate. Dose response curve for Human NRG1 Beta 1, hFc Tag with the EC50 of 14.2ng/ml determined by ELISA.