

# Human NRG1 Beta 1 Protein

Cat. No. NRG-HM1B1

## Description

<b>Source</b>	Recombinant Human NRG1 Beta 1 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Ser177-Glu241.
<b>Accession</b>	Q02297-6
<b>Molecular Weight</b>	The protein has a predicted MW of 8.57 kDa. Due to glycosylation, the protein migrates to 10-13 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE

## Formulation and Storage

<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in 50mM NaAc, 150mM NaCl (pH 5.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . 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

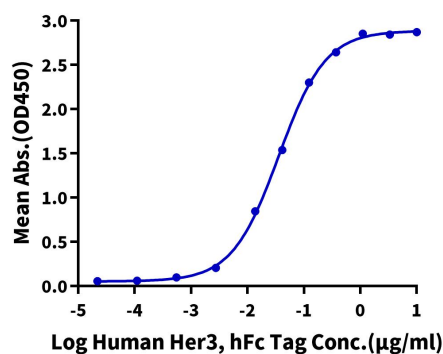


Human NRG1 Beta 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human NRG1 Beta 1, His Tag ELISA

0.2 $\mu\text{g}$  Human NRG1 Beta 1, His Tag Per Well



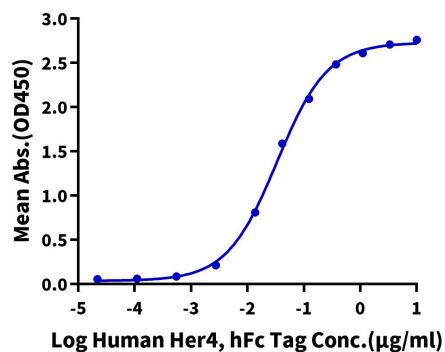
Immobilized Human NRG1 Beta 1, His Tag at 2 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Human Her3, hFc Tag with the EC50 of 35.8ng/ml determined by ELISA (QC Test).

Assay Data

ELISA Data

**Human NRG1 Beta 1, His Tag ELISA**

0.2µg Human NRG1 Beta 1, His Tag Per Well



Immobilized Human NRG1 Beta 1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human Her4, hFc Tag with the EC50 of 33.4ng/ml determined by ELISA.