

# Biotinylated Human NRG1 Beta 1 Protein (Primary Amine Labeling)



Cat. No. NRG-HM201B

## Description

<b>Source</b>	Recombinant Biotinylated Human NRG1 Beta 1 Protein (Primary Amine Labeling) is expressed from HEK293 with hFc tag at the N-terminus. It contains Ser2-Lys246.
<b>Accession</b>	Q02297-6
<b>Molecular Weight</b>	The protein has a predicted MW of 54.00 kDa. Due to glycosylation, the protein migrates to 75-90 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

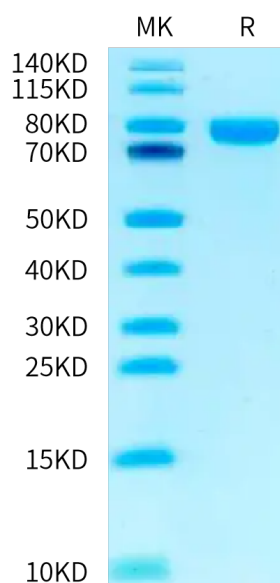
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°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-D-aspartate 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



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

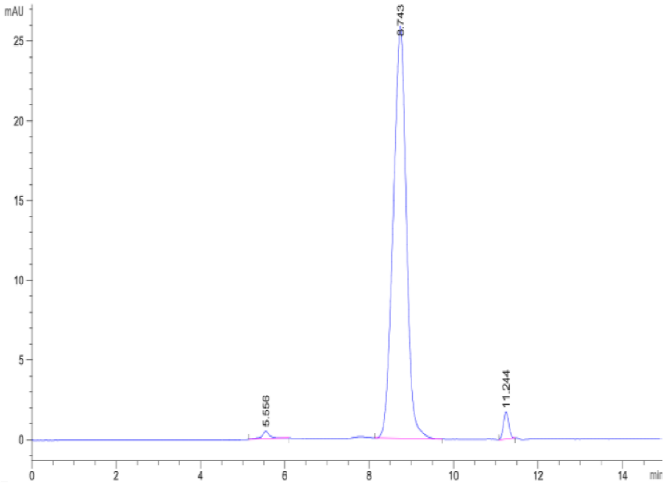
### SEC-HPLC

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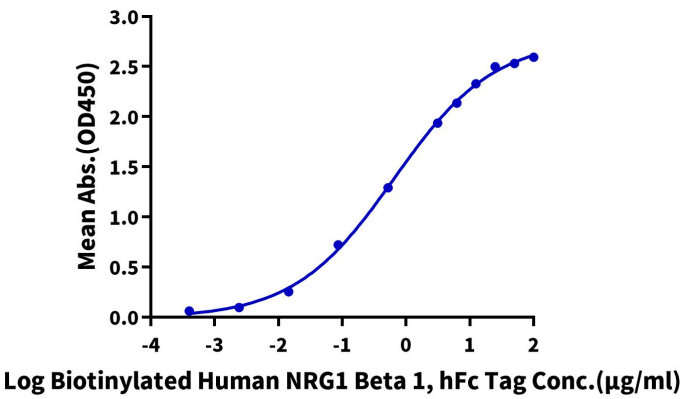
Assay Data



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

ELISA Data

**Biotinylated Human NRG1 Beta 1, hFc Tag ELISA**  
0.5µg Human Her4, His Tag Per Well



Immobilized Human Her4, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human NRG1 Beta 1, hFc Tag with the EC50 of 0.65µg/ml determined by ELISA.