

Human NRG1 Beta 1 Protein

Cat. No. NRG-HM1B1

Description

Source	Recombinant Human NRG1 Beta 1 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Ser177-Glu241.
Accession	Q02297-6
Molecular Weight	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.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE

Formulation and Storage

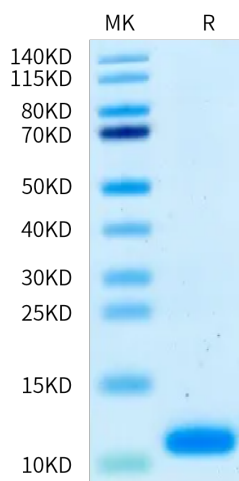
Formulation	Lyophilized from 0.22 μm filtered solution in 50mM NaAc, 150mM NaCl (pH 5.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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 γ -aminobutyric acid receptor and subunits of the nicotinic acetylcholine receptor.

Assay Data

Bis-Tris PAGE

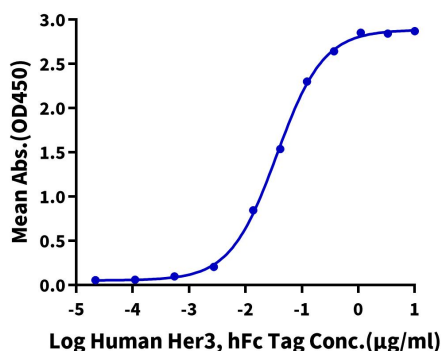


Human NRG1 Beta 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human NRG1 Beta 1, His Tag ELISA

0.2 μg Human NRG1 Beta 1, His Tag Per Well



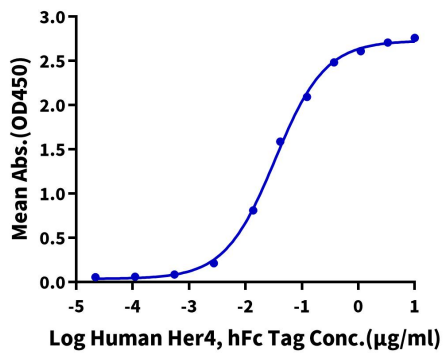
Immobilized Human NRG1 Beta 1, His Tag at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) on the plate. Dose response curve for Human Her3, hFc Tag with the EC50 of 35.8 ng/ml determined by ELISA (QC Test).

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.