

Recombinant Human NRG1 protein(Thr176-Lys246), hFc-tagged

Cat. No. NRG1-325H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRG1 isoform beta1 (Q02297-6)(Thr 176-Lys 246) was expressed in HEK293, fused with the Fc region of Human IgG1 at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	176-246 a.a.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized Rhesus ErbB3 at 2 µg/mL (100 µl/well) can bind human NRG1 (isoform Beta1), The EC50 of human NRG1 (isoform Beta1) is 0.58 µg/mL. 3. Immobilized human ErbB3 at 2 µg/mL (100 µl/well) can bind human NRG1 (isoform Beta1), The EC50 of human NRG1 (isoform Beta1) is 0.43 µg/mL.
Molecular Mass	The recombinant human NRG1(aa176-246)/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 331 amino acids and has a calculated molecular mass of 36.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh NRG1/Fc monomer is approximately 38 kDa.
Endotoxin	< 1.0 EU per

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	µg of the protein as determined by the LAL method
Purity	> 86 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. 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	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	NRG1 neuregulin 1 [Homo sapiens]
Official Symbol	NRG1
Synonyms	NRG1; neuregulin 1; HGL; pro-neuregulin-1, membrane-bound isoform; GGF; HRG; NDF; MSTP131; pro-NRG1; glial growth factor; neu differentiation factor; neuregulin 1 type IV beta 3; neuregulin 1 type IV beta 1a; sensory and motor neuron derived factor; heregulin, alpha (45kD, ERBB2 p185-activator); ARIA; GGF2; HRG1; HRGA; SMDF; MST131;
Gene ID	3084
mRNA Refseq	NM_001159995
Protein Refseq	NP_001153467
MIM	142445

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UniProt ID

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