

Active Recombinant Human NRG1 protein

Cat. No. NRG1-678H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRG1 protein(Q02297)(177-241 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	177-241 aa
Form	Lyophilized from a 0.2 µm filtered solution in 1 × PBS, pH 7.4, with 5 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 0.5 ng/ml, corresponding to a specific activity of 2.0×10^6 IU/mg.
Molecular Mass	Approximately 7.5 kDa, a single non-glycosylated polypeptide chain containing 65 amino acids.
AASequence	SHLVKCAEKE KTFCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRQCQNYVM ASFYKHLGIE FMEAE
Endotoxin	Less than 0.1 EU/µg of rHuNRG1-β1, 177-241a.a. as determined by LAL method.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months

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from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

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](#)

UniProt ID [Q02297](#)

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