

Human NRG1 Recombinant Protein



RPPB0789

Product Information Protein Information

Product SKU:

RPPB0789

Accession:

Q02297

Host:

Escherichia Coli.

Protein description:

Recombinant Human Neuregulin-1 beta 2 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 61 amino acids and having a total molecular mass of 7.0kDa. NRG-1 is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Neuregulin-1, NRG1, GGF, HGL, HRGA, NDF, SMDF, HRG, ARIA, GGF2, HRG1.

Formulation:

Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.

Purity:

Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized NRG1 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized NRG1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Heregulin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid Sequence:

SHLVKCAEKEKTFVNGGECFMVKDLSNPSRYLCKCPNEFTGDRCQNYVMASFYKAEELYQ.

Biological Activity:

The ED₅₀ as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 50ng/ml, corresponding to a specific activity of > 2.0 × 10⁴ IU/mg.