

Recombinant Human Neuregulin 1-beta2 EGFlike domain GMP (rHuNRG1-β2 GMP)

PrimeGene Technical DataSheet

Catalog Number:

GMP-107-10

Source:

Escherichia coli

Molecular Weight:

Approximately 7.0 kDa, a single non-glycosylated polypeptide chain containing 61 amino acids.

Size:

 $5~\mu g/100~\mu g/1~mg$

Sequence:

SHLVKCAEKE KTFCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRCQNYVM

ASFYKAEELY Q

Purity:

> 98% by SDS-PAGE and HPLC analyses.

Biological 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 5 ng/mL, corresponding to a specific activity

of $> 2.0 \times 10^5 \text{ U/mg}$.

Physical Appearance:

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation:

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

Endotoxin:

Less than 0.01 EU/ μ g of rHuNRG1- β 2 GMP as determined by LAL method.

Reconstitution:

Prior to opening, it is recommended to centrifuge the vial briefly to bring the contents down the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. If animal-origin-free condition is expected in your product, then sterile distilled water is recommended. Stock solutions should be apportioned into working aliquots

and stored at \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping:

The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

A minimum of 12 months from date of receipt, when stored at \leq -20 °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.

Refer to lot-specific CoA for the Expiry Date.

Usage:

This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory, or further

evaluation purposes. NOT FOR HUMAN USE.

Quality Statement:

The manufacturing and testing of these products comply with ICH Q7 guidelines.

Shanghai PrimeGene Bio-Tech Co., Ltd.

Website: www.primegene.com.cn

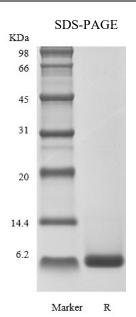
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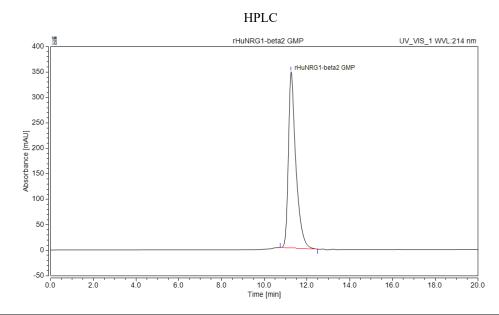
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Background:

Neuregulin 1 belongs to a family of structurally related polypeptide growth factors and is produced in numerous isoforms by alternative splicing, which allows it to perform a wide variety of functions. These isoforms include heregulins (HRGs), glial growth factors (GGFs) and sensory and motor neuron-derived factor (SMDF). They all have the Ig and EGF-like domain, and can bind to ErbB3 and ErbB4 receptor tyrosin kinases. This binding induces ErbB3 and ErbB4 heterodimerization with ErbB2, stimulating intrinsic kinase activity, which leads to tyrosine phosphorylation. NRG1 isoforms have functions of inducing the growth and differentiation of epithelial, neuronal, glial, and other types of cells.

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Page: 2 / 2