ChemUhot Recombinant Human Neuregulin 1-beta2 EGF-like domain GMP (rHuNRG1-β2 GMP) ChemWhat Technical Data Sheet (TDS)

Catalog Number: GMP-107-10 Source: Escherichia coli. Molecular Weight: Approximately 7.0 kDa, a single non-glycosylated polypeptide chain containing 61 amino acids. Quantity: 5µg/100µg/1mg AA Sequence: SHLVKCAEKE KTFCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRCQNYVM ASFYKAEELY Q > 98 % by SDS-PAGE and HPLC analyses.
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Purity: > 98 % by SDS-PAGE and HPLC analyses.
Biological Activity: Fully biologically active when compared to standard. The ED ₅₀ 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 $> 2.0 \times 10^5$ 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/μg of rHuNRG1-β2 GMP as determined by LAL method.
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 \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping: The product is shipped at ambient temperature. 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 when stored at \leq -20 °C as supplied. Refer to lot specific COA for the
Use by Date.
• 1 month, 2 to 8 °C under sterile conditions after reconstitution.
• 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage: This GMP product can be for research use or further manufacturing use.
Quality statement: The manufacture and testing of this product is in compliance with ICH Q7a guidelines.

Human Neuregulin 1-beta2 EGF-like domain

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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