

Recombinant Human LR3 Insulin-like Growth Factor-1 GMP (rHuLR3 IGF-1 GMP)

PrimeGene Technical Data Sheet

Catalog Number: GMP-105-03
Source: Escherichia coli.

Molecular Weight: Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 83 amino acids.

Quantity: 1mg/5mg/50mg

AA Sequence: MFPAMPLSSL FVNGPRTLCG AELVDALQFV CGDRGFYFNK PTGYGSSSRR APQTGIVDEC

CFRSCDLRRL EMYCAPLKPA KSA

Purity: >98 % by SDS-PAGE analyses.

>90 % by RP-HPLC analyses.

Biological Activity: Assay 1: Fully biologically active when compared to standard. Measured in a serum-free cell

proliferation assay using human MCF-7 cells. The ED_{50} for this effect is 0.3-1.5 ng/ml, corresponding

to a specific activity of $> 6.7 \times 10^5$ IU/mg.

Assay 2: Fully biologically active when compared to standard. The ED₅₀ as determined by the stimulation of protein synthesis using rat L6 myoblasts is less than 10 ng/ml, corresponding to a

specific activity of $> 1.0 \times 10^5$ IU/mg.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.2.

Endotoxin: Less than 0.01 EU/μg of rHuLR3 IGF-1 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.

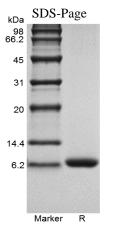
12 months from date of receipt, -20 to -70 °C as supplied.

• 1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

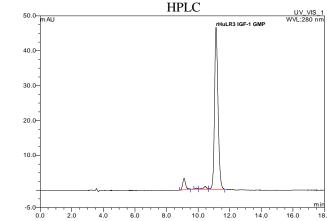
Usage: This GMP product can be for research use or further manufacturing use.

Quality statement: The manufacture and testing of this product is in compliance with ICH Q7a guidelines.



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