

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

PrimeGene Technical Data Sheet

Catalog Number:	GMP-105-03
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 83 amino acids.
Quantity:	1mg/5mg/50mg
AA Sequence:	MFPAMPLSSL FVNGPRTL CG AELVDALQFV CGDRGFYFNK PTGYGSSRR 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 × 10 ⁵ IU/mg. Assay 2: Fully biologically active when compared to standard. The ED ₅₀ 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 × 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 ≤ -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. <ul style="list-style-type: none">● 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.

