

RPPB0418

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## Product Information    Protein Information

**Product SKU:**

RPPB0418

**Host:**

Escherichia Coli.

**Protein description:**

The LR3 is a long-term analog of human IGF-1, specifically designed and manufactured for mammalian cell culture to support large-scale manufacturing of recombinant biopharmaceuticals. Recombinant Human LR3 Insulin Like Growth Factor-1 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 83 amino acids and having a molecular mass of 9.1kDa.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

R3 IGF1, R3 IGF-1, R3IGF1, R3IGF-1, LONG IGF1, LONG IGF-1, LONG R3 IGF1, LONG R3IGF1, LONG R3 IGF-1, LONG R3IGF-1.

**Formulation:**

Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS.

**Purity:**

Greater than 95.0% as determined by SDS-PAGE and HPLC.

**Solubility:**

It is recommended to reconstitute the lyophilized LR3 IGF1 in sterile 18M-cm H2O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized LR3 IGF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution the LR3 IGF1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

MFPAMPLSSLFVNGPRTLCAELVDALQFVCGDRGFYFNKPTGYGSSRRRAPQTGIV  
DECCFRSCDLRRLEMYCAPLPAKSA.

**Biological Activity:**

The ED50 as determined by the stimulation of protein synthesis in L6 myoblasts is less than 10ng/ml, corresponding to a specific activity of 100,000units/mg.