

The smart choice for expanding cell production!

The recombinant cytokine proteins used in cell culture provided by PrimeGene™ are animal-free components. They have the equivalent effects with serum-derived additives. The standardized process flow ensures the stable quality of the products.

105-03 LR3 IGF-1

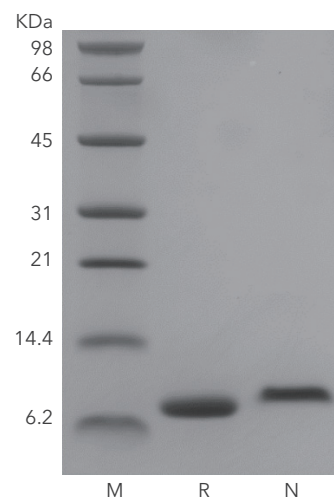
LR3 IGF-1 is the key growth factor used in cell culture and can improve protein expression by anti-apoptosis and promoting cell proliferation. It has been widely used in bio-manufacturing by leading biotechnology companies, especially for large-scale mammalian cell culture in biomedicine.

Compared to IGF-1, the third glutamic acid is replaced by arginine and 13 additional amino acids are inserted at the N-terminus in LR3 IGF-1. The slight difference in amino acids sequence reduces the affinity of LR3 IGF-1 with IGF-BPs, prolonging its half-life and biological activity.

Products advantages:

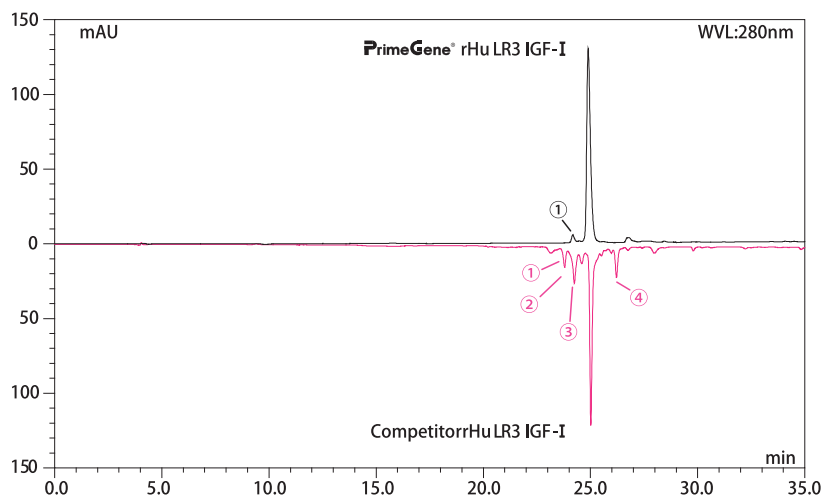
- ISO9001:2015 quality system certified, animal-free components, standardized acceptance criteria
- Compared to insulin, LR3 IGF-I has 200 times higher biological activity and three times higher stability
- High purity:>98% in SDS-PAGE and >90% in RP-HPLC
- High biological activity: the activity > 1.0×10^5 IU/mg compared with the standard when testing in rat L6 cell line
- Endotoxin level < 0.01 EU/μg
- Easy to dissolve
- Suitable for culturing various mammalian cells: CHO, HEK293, Vero, PerC6, MDCK
- In stock, stable supply

A. SDS-PAGE

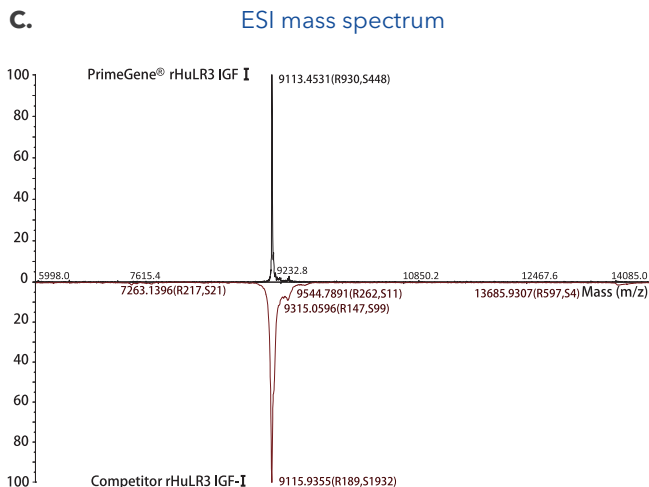


The purity is more than 98% in SDS-PAGE

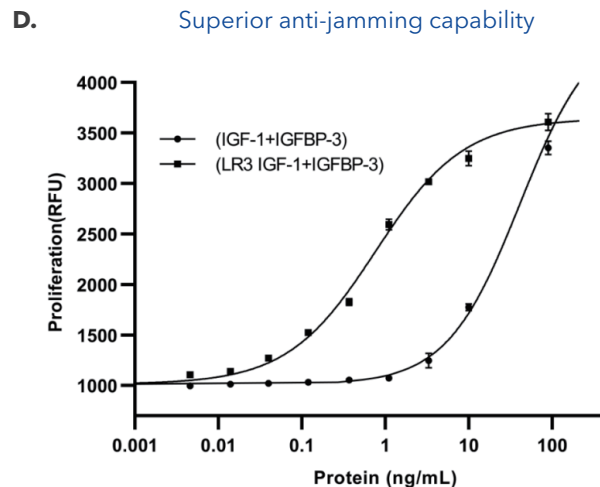
B. SEC-HPLC



SEC-HPLC results: the purity of PrimeGene's LR3 IGF-1 is more than 95%, and the competitor is about 65% and has 1-4 impure peaks



ESI results: The main peak of PrimeGene's LR3 IGF-1 is in 9113Da, consistence with theoretical values



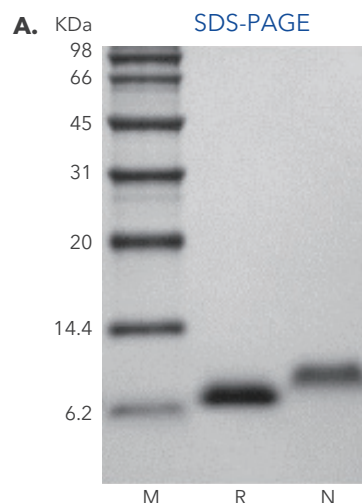
PrimeGene's LR3 IGF-1 has superior anti-jamming capability

105-01 IGF-1

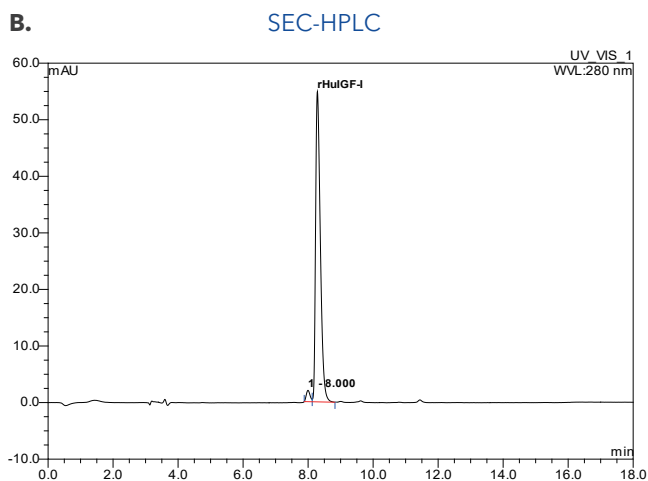
Insulin-like growth factor-1 (IGF-1) can act as serum-free medium additives, used in cell proliferation, prolonging cell life and promoting protein expression.

Products advantages:

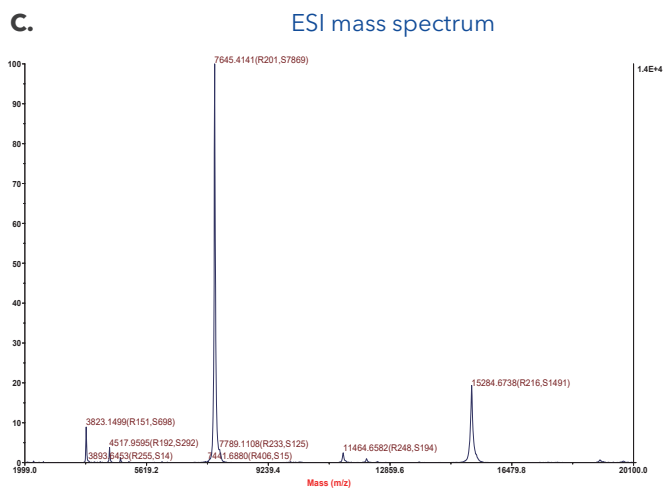
- ISO9001:2015 quality system certified, animal-free components, standardized acceptance criteria
- High purity:>98% in SDS-PAGE and >97% in SEC-HPLC
- High biological activity: the activity > 5.0×10^5 IU/mg when testing in human MCF-7 cell line
- Endotoxin level < 0.01 EU/ μ g
- In stock, stable supply



The purity is more than 98% in SDS-APGE



SEC-HPLC results: the purity of PrimeGene's IGF-1 is more than 97%



ESI results: The main peak of PrimeGene's IGF-1 is in 9645Da, consistence with theoretical values

PrimeGene
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