

Recombinant Human IGF-I Protein

Catalog No.: RP01608 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3479	P05019-1

Tags

No tag

Synonyms

IGF-1;IGF-I;IGF1A;IGFI;IGF?I;MGF;IGF1

Product Information

Source	Purification
<i>Pichia</i>	> 95% by SDS-PAGE.

Calculated MW	Observed MW
7.65 kDa	10-15 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Basic Information

Description

Recombinant Human IGF-I Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Gly49-Ala118) of human IGF-I (Accession #NP_001104755.1) fused with no additional amino acid.

Bio-Activity

Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED₅₀ for this effect is typically 53.5-214.2 ng/mL.

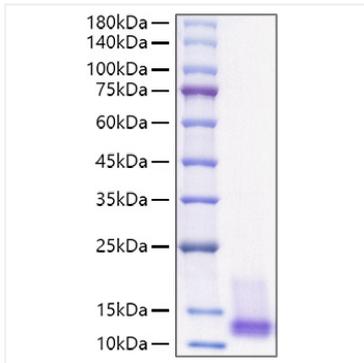
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

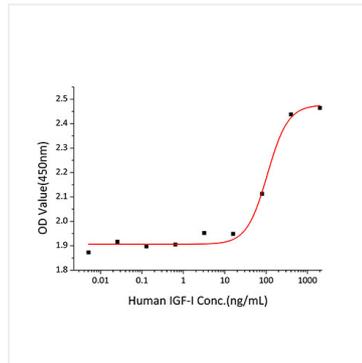
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IGF-I Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 10-15 kDa.



Recombinant Human IGF-I stimulates cell proliferation of the MCF-7 human breast cancer cells. The ED₅₀ for this effect is typically 53.5-214.2 ng/mL.