

Active Recombinant Human IGF1 Protein (Gly49-Ala118), GMP Grade, Animal-Free

Cat. No. IGF1-29HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human IGF-I/IGF-1 protein (Gly49-Ala118) without tag was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Gly49-Ala118
Description	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein.
Bio-activity	Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is 0.3-1.5 ng/mL. The specific activity of recombinant human IGF-I/IGF-1 is >1000 IU/mg, which is calibrated against the human IGF-I/IGF-1 WHO International Standard.
Molecular Mass	Predicted Molecular Mass: 7.6 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

N-terminal Sequence Analysis	Gly-Pro-Glu-Thr-Leu-(Cys)-Gly-Ala-Glu-Leu
Endotoxin	<0.10 EU/ µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens]
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGF-I; IGF-I;
Gene ID	3479

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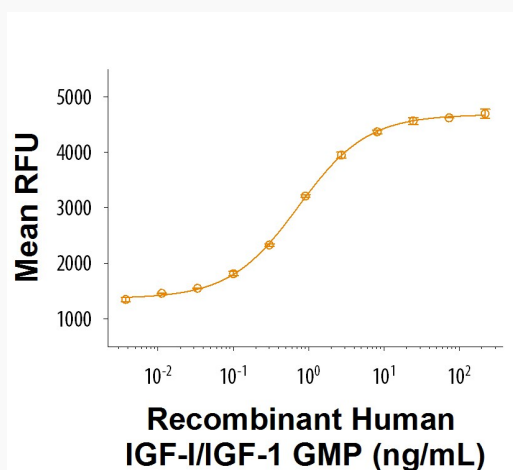
mRNA Refseq [NM_000618](#)

Protein Refseq [NP_000609](#)

MIM [147440](#)

UniProt ID [P05019](#)

Bioactivity

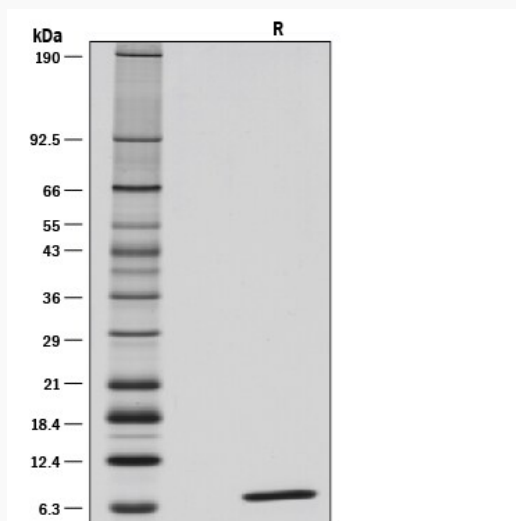


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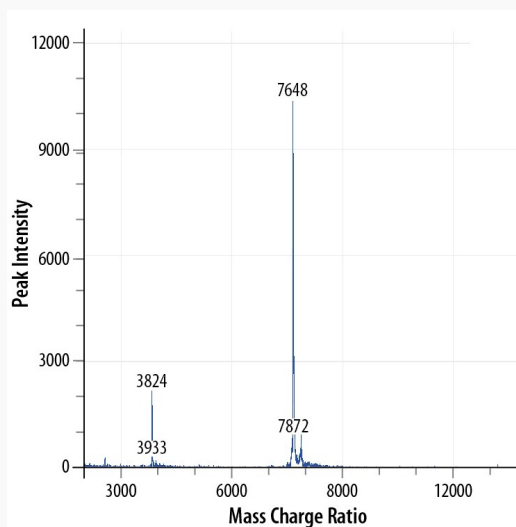
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SDS-PAGE



Mass Spectrometry



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