

Active Recombinant Human IGF1 protein, 15N Stable Isotope Labeled

Cat. No. IGF1-3928H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 protein, 15N Stable Isotope Labeled(P05019)(49-118 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	49-118 aa
Form	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.2, 0.02% Tween-20.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 2 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 7743 Da, a single non-glycosylated polypeptide chain containing 70 amino acids. 15N stable isotope labeled.
AASequence	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA
Endotoxin	Less than 1 EU/µg of rHuIGF-1, 15N as determined by LAL method.

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Purity	> 97 % by SDS-PAGE and HPLC analyses.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 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.
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.

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; IGF1; IGF-I;
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440

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UniProt ID	P05019
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SDS-PAGE

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