

Active Recombinant Human IGF2 insulin-like growth factor 2 (somatomedin A)

Cat. No. IGF2-371H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF-II produced in E.coli is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7.505 kDa.
Species	Human
Source	E.coli
Description	This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilmstumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Tyr-Arg-Pro-Ser.
Purity	Purity > 97% by (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.
Activity	rHuIGF-II is fully biologically active when compared to standards. The ED50, calculated by the competitive binding of IGF-II plasma derived to human placental

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membrane is < 1.0 ng/ml, corresponding to a specific activity of 106 U/mg.

Content

Protein quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm.2. Analysis by RP-HPLC, using a calibrated solution of IGF-II as a Reference Standard.

Storage

-20oC, avoid repeated freeze and thaw cycles.

Pathways

Diabetes pathways

GENE INFORMATION

Gene Name

IGF2 insulin-like growth factor 2 (somatomedin A) [Homo sapiens]

Official Symbol

IGF2

Synonyms

insulin-like growth factor 2 (somatomedin A);INSIGF; pp9974; C11orf43; FLJ22066; FLJ44734; IGF2; insulin-like growth factor 2; IGF-II; somatomedin A; somatomedin-A; insulin-like growth factor II; insulin-like growth factor type 2; putative insulin-like growth factor II associated protein; chromosome 11 open reading frame 43; OTTHUMP00000011157; OTTHUMP00000011018

Gene ID

3481

mRNA Refseq

NM_000612

Protein Refseq

NP_000603

MIM

147470

UniProt ID

P01344

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Chromosome Location	11p15.5
Function	growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding

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