Recombinant Human IGF2 Protein

Cat. No. IGF2-037H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Insulin-like growth factor 2 (rhIGFII), Ala25-Glu91 (Accession # P01344-1) was expressed in human HEK293 cell.
Species	Human
Source	HEK293
ProteinLength	25-91 a.a.
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 Wilms tumour, 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. [provided by RefSeq, Oct 2010]
Molecular Mass	rhIGFII was fused with two amino acid gly-pro at the N-terminal and has a calculated MW of 7.6 kDa. DTT-reduced protein migrates as 8 kDa polypeptide in SDS-PAGE.
Endotoxin	Less than 1.0 EU endotoxin per μg rhIGFII by the LAL method.
Purity	>95% purity as determined by SDS-PAGE of reduced rhIGFII.

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Notes	Research Use Only. Not for use in diagnostic or therapeutic procedures.
Storage	Store at -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhIGFII should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	Bulk protein in a 0.22 μm filtered solution of PBSpH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.

GENE INFORMATION

Gene Name	IGF2 insulin-like growth factor 2 (somatomedin A) [Homo sapiens]
Official Symbol	IGF2
Synonyms	IGF2; insulin-like growth factor 2 (somatomedin A); C11orf43, chromosome 11 open reading frame 43; insulin-like growth factor II; FLJ44734; somatomedin-A; insulin-like growth factor type 2; IGF-II; PP9974; C11orf43; FLJ22066;
Gene ID	3481
mRNA Refseq	NM_000612
Protein Refseq	NP_000603
MIM	147470
UniProt ID	P01344

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