

## Active Recombinant Human IGF2 Protein, Fc & Avi-tagged, Biotinylated

**Cat. No.** IGF2-215H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Biotinylated Human IGF-II, Fc Tag (IG2-H82F9) is expressed from human HEK293 cells. It contains AA Ala 25 - Glu 91 (Accession # P01344).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	25-91 a.a.
<b>Form</b>	Lyophilized from sterile 50 mM tris, 100 mM glycine, pH7.5, 10% Trehalose.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA against immobilized Human IGFBP-3, His Tag (0.5 µg/well). The linear range is 0.008-0.1 µg/mL.
<b>Molecular Mass</b>	This protein carries an Avi tag at the N-terminus, followed by a human IgG1 Fc fragment. The protein has a calculated MW of 35.4 kDa. The protein migrates as 40 kDa on a SDS-PAGE gel under reducing condition and 66 kDa under non-reducing condition.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.

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<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	IGF2 insulin-like growth factor 2 (somatomedin A) [ Homo sapiens ]
<b>Official Symbol</b>	IGF2
<b>Synonyms</b>	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;
<b>Gene ID</b>	3481
<b>mRNA Refseq</b>	NM_000612
<b>Protein Refseq</b>	NP_000603
<b>MIM</b>	
<b>UniProt ID</b>	P01344
<b>Chromosome Location</b>	11p15.5
<b>Pathway</b>	Apoptosis, organism-specific biosystem; Diabetes pathways, organism-specific

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biosystem; Disease, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs), organism-specific biosystem;

**Function**

growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding; protein serine/threonine kinase activator activity; receptor activator activity;

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