

Recombinant Human Insulin-like Growth Factor 2 (somatomedin A)

Cat. No. IGF2-609H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanIGF2 protein was expressed in E. coli. They are made by reacting hIGF-II withSulfo-NHS-Biotin reagent. In di-biotinyl-human-IGF-II both the a-amino groupof the N-terminal alanine and the e-amino group of the lysine at position 65are biotinylated.
Species	Human
Description	IGF2 is one ofthree protein hormones that share structural similarity to insulin. IGF2 iscreated by Theca cells to act in an autocrine manner on the theca cellsthemselves, and in a paracrine manner on Granulosa cells in the ovary. IGF2promotes granulosa cell proliferation during the follicular phase of themenstrual cycle, acting alongside Follicle Stimulating Hormone.
Purity	Greater than 95 %(by HPLC)
Molecular Weight	Mono-biotinyl-human-IGF-II-7696daltons; Di-biotinyl-human-IGF-II-7922 daltons; Homogeneity and mass of bothconfirmed by Mass Spectrometry.
N-terminal sequence analysis	5 residues Greaterthan 95 % single sequence.
Biological Activity	Western ligand blotto bovine IGFBP-2.
Endotoxin	Less than 0.1 EU/μg

 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

State and appearance	Lyophilized whitepowder. Dried from 0.1 M acetonitrile/ 0.1% trifluoroacetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa).
Reconstitution	Handling of GroPepIGF-I, IGF-II and IGF Analogs.
Storage	At least 2 years at 2 - 4°C (lyophilized).
Official Symbol	IGF2
Pathways	Apoptosis; Diabetes pathways; Endochondral Ossification; Hedgehog Signaling Pathway; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs)

GENE INFORMATION

Gene Name	IGF2 insulin-like growth factor2 (somatomedin A) [Homo sapiens]
Synonyms	IGF2; insulin-like growth factor 2 (somatomedin A); IGF-II; PP9974; C11orf43; FLJ22066; FLJ44734; insulin-like growth factor II; somatomedin-A; OTTHUMP00000011012; OTTHUMP00000011013; OTTHUMP00000011015; OTTHUMP00000011018; OTTHUMP00000011157; OTTHUMP00000011158; OTTHUMP00000220677; insulin-like growth factor type 2; chromosome11 open reading frame 43; Insulin-like growth factor II; Somatomedin-A
Gene ID	3481
mRNA Refseq	NM_001127598
Protein Refseq	NP_001121070
MIM	147470

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UniProt ID	P01344
Chromosome Location	11p15.5
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
PDB rendering based on 1igl.	