

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

Cat. No. IGF2-5431H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanIGF2 was expressed in E. coli.
Species	Human
Source	E.coli
Description	The IGF-II geneencodes a single transcript which results in an 156 amino acid protein,including an 89 amino acid E-domain. ProIGF-II contains sites of O-linkedglycosylation. ProIGF-II is converted to mature IGF-II by sequential cleavageafter amino acids 104, 87 and 67. Differential glycosylation and cleavagewithin the E-domain can therefore result in multiple proIGF-II isoforms.
Purity	Greater than 95% (byHPLC and N-terminal sequence analysis).
Molecular Weight	11.949 kDa-confirmedby Mass Spectrometry.
Endotoxin Level	Less than 0.1 EU/ug
Biological Activity	Stimulation ofprotein synthesis in rat L6 myoblasts.
State and appearance	Lyophilized whitepowder.
N-terminal sequenceanalysis	5 residues Greaterthan 95% single sequence.

 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

Reconstitution	Refer to Protocol1000: Handling of GroPep IGF-I, IGF-II and IGF Analogs.
Storage	At least 2 years at2-4°C (lyophilized).
OfficialSymbol	IGF2
GENE INFORMATION	
Gene Name	IGF2 insulin-like growth factor2 (somatomedin A) [Homo sapiens]
Synonyms	IGF2; insulin-likegrowth 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
Gene ID	3481
mRNA Refseq	NM_000612
Protein Refseq	NP_000603
MIM	147470
UniProt ID	P01344
Chromosome Location	11p15
Pathway	Apoptosis;Diabetes pathways; Endochondral Ossification; Hedgehog Signaling Pathway;Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-likeGrowth

 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

Factor Binding Proteins (IGFBPs)

Function

growthfactor activity; hormone activity; insulin receptor binding; insulin-likegrowth factor receptor binding; protein binding; protein serine/threoninekinase activator activity; receptor activator activity

PDBrendering based on 1igl. 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