

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

Cat. No. IGF2-5430H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanIGF2 was expressed in E. coli.
Species	Human
Source	E.coli
Description	Human Insulin-likeGrowth Factor-II (IGF-II) is a single chain 67 amino acid polypeptide thatshares structural homology with insulin and human IGF-I. Human IGF-II iswidely distributed in many tissues throughout the body and acts on numerouscell types through the Type 1 IGF-I receptor. IGF-II also binds specificallyto the IGF-II / cation-independent mannose-6-phosphate receptor as well asthe family of six IGF binding proteins, but the physiological function ofIGF-II as a result of all these interactions has not been clearlyestablished.
Purity	Greater than 95% (byHPLC and N-terminal sequence analysis).
Molecular Weight	7.649kDa-homogeneity confirmed by Mass Spectrometry.
Endotoxin Level	Less than 0.1 EU/ug
Biological Activity	Type 1 IGF receptorbinding assay: ED50>20 ng/ml. Type 2 IGF receptor binding assay: ED50<70ng/ml. IGF binding protein assay: ED50<10 ng/ml. Stimulation of proteinsynthesis in rat L6 myoblasts: ED50 Less than 150 ng/ml.

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State and appearance	Lyophilized whitepowder.
N-terminal sequenceanalysis	7 residues Greaterthan 95% single sequence.
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

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Chromosome Location	11p15
Pathway	Apoptosis;Diabetes pathways; Endochondral Ossification; Hedgehog Signaling Pathway;Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-likeGrowth 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.	

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