

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

Cat. No. IGF2-692H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanIGF2 was expressed in E. coli.
Species	Human
Source	E.coli
Description	Human [Leu27]IGF-II is an analog of human IGF-II which has Leu in place of Tyr at position27. Of the IGF-II amino acid sequence. Compared to human IGF-II, human [Leu27]IGF-II has a 10-20 fold reduced affinity for the Type 1 IGF receptor.
Purity	Greater than 95% (byHPLC and N-terminal sequence analysis).
Molecular Weight	7.420 kDa-confirmedby Mass Spectrometry.
Endotoxin Level	Less than 0.1 EU/ug
Biological Activity	Type 1 IGF receptorbinding assay: ED50>175 ng/ml. Type 2 IGF receptor binding assay:ED50<371 ng/ml. IGF binding protein assay: ED50<10 ng/ml.
State and appearance	Lyophilized whitepowder. Dried from 0.1 M acetic acid and stored under dry nitrogen at aslight vacuum (-25 kPa).
N-terminal sequenceanalysis	5 residues Greaterthan 95% single sequence.

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Reconstitution	Refer to Protocol 1000:Handling of GroPep IGF-I, IGF-II and IGF Analogs.
Storage	At least 2 years at 2-4°C (lyophilized).
Official Symbol	IGF2
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
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-like Growth

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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

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