

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

Cat. No. IGF2-450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Insulin-like Growth Factor 2 (Somatomedin A) is expressed in <i>E.coli</i> .
Species	Human
Source	E.coli
Description	Human Des(1-6) Insulin-like Growth Factor-II (Des(1-6)IGF-II) is a 61 amino acid analog of human IGF-II, lacking the first six N-terminal amino acids. This analog of IGF-II binds to the Type 1 and Type 2 IGF receptors with similar affinity to IGF-II. Human Des(1-6)IGF-II exhibits reduced affinity for IGF binding proteins (IGFBPs), which modulate the actions of IGFs.
Molecular Weight	6765 daltons – confirmed by Mass Spectrometry.
N-terminal Sequence Analysis	5 residues > 95 % single sequence.
Purity	> 95 % (by HPLC and N-terminal sequence analysis).
Biological Activity	Type 1 IGF receptor binding assay: ED50 < 50 ng/ml; Type 2 IGF receptor binding assay: ED50 < 100 ng/ml; IGF binding protein assay: ED50 > 1000 ng/ml; Stimulation of protein synthesis in rat L6 myoblasts: ED50 < 75 ng/ml.

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Endotoxin	< 0.1 EU/g.
State And Appearance	Lyophilized white powder. Dried from 0.1 M acetic acid and stored under nitrogen at a slight vacuum.
Detection	Determination of IGF-I or IGF-II in a Range of Species by Radioimmunoassay (RIA).
Reconstitution	Handling of Novozymes GroPep IGF-I, IGF-II and IGF Analogs.
Storage/Stability	At least 2 years at 2 - 4°C (lyophilized).

GENE INFORMATION

Gene Name	IGF2 insulin-like growth factor 2 (somatomedin A) [Homo sapiens]
Synonyms	insulin-like growth factor 2 (somatomedin A);INSIGF; pp9974; C11orf43; FLJ22066; FLJ44734; IGF2; insulin-like growth factor 2; IGF-II; somatomedin A; somatomedin-A; insulin-like growth factor II; insulin-like growth factor type 2; putative insulin-like growth factor II associated protein; chromosome 11 open reading frame 43; OTTHUMP00000011157; OTTHUMP00000011018
Gene ID	3481
mRNA Refseq	NM_000612
Protein Refseq	NP_000603
MIM	147470
UniProt ID	P01344

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Chromosome Location	11p15.5
Pathway	Diabetes pathways
Function	growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding
PDB rendering based on 1igl.	