

Recombinant Human IGF2, 1-104 aa

Cat. No. IGF2-462H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF2 (1-104aa) is expressed in <i>E. coli</i> .
Species	Human
Source	E.coli
ProteinLength	1-104 a.a.
Description	The IGF-II gene encodes a single transcript which results in an 156 amino acid protein, including an 89 amino acid E-domain. ProIGF-II contains sites of O-linked glycosylation. ProIGF-II is converted to mature IGF-II by sequential cleavage after amino acids 104, 87 and 67. Differential glycosylation and cleavage within the E-domain can therefore result in multiple proIGF-II isoforms. The proIGF-II proteins make up 10-20% of circulating IGF-II. ProIGF-II proteins are secreted by some tumor cell lines and levels are elevated in non-islet cell tumor hypoglycemia.
Molecular Weight	11949 Da.
N-terminal Sequence Analysis	5 residues > 95 % single sequence.
Purity	> 95% by HPLC and N-terminal sequence.
Biological Activity	Stimulation of protein synthesis in rat L6 myoblasts. Endotoxin:< 0.1 EU/ug.

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State And Appearance	Lyophilized white powder.Dried from 0.1M acetic acid under dry nitrogen at a slight vacuum (-25 kPa).
Detection	By Western blot Peptide can be biotinylated by ibt upon request.
Storage/Stability	At least 2 years at 2 - 4oC (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
Chromosome Location	11p15.5
Pathway	Diabetes pathways

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Function

growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding

PDB rendering based on 1igl.



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