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

Cat. No. IGF2-621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human IGF2 is expressed in E. coli, the final productcontains three major isoforms of IGF2 corresponding to MW 16.1, 17.0 and 17.6kDa.
Species	Human
Source	E.coli
Description	Human IGF2 is synthesized as a 156 amino acid precursor protein,known as proIGF2. This protein includes an 87 amino acid C-terminal regionknown as the E-domain. A proteolysis step releases the mature 67 amino acidIGF2 polypeptide. The proIGF2 proteins make up 10-20% of circulating IGF2.Pro-IGF2 proteins are secreted by some tumor cell lines and levels areelevated in non-islet cell tumor hypoglycemia.
Form	Lyophilizedwhite powder. Dried from 0.1 M acetic acid and stored under dry nitrogen at aslight vacuum (-25 kPa).
Purity	88%
Biological Activity	Stimulatesprotein synthesis in rat L6 myoblasts.
Reconstitution	Dissolvein dilute acid (10 mM HCl or 0.1 M acetic acid), aliquot and store at -20°C. Avoidrepeated freeze-thaw cycles. For low concentrations (< 1 mg/ml) inclusionof a carrier protein such as BSA is recommended.
Storage	Lyophilized protein is stable atleast 2 years at 2-4°C.

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OfficialSymbol	IGF2

GENE INFORMATION

Gene Name	IGF2insulin-like growth factor 2 (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; OTTHUMP00000011016; OTTHUMP00000011017; OTTHUMP00000011018;OTTHUMP00000011157; OTTHUMP00000011158; OTTHUMP000000220667; insulin-likegrowth factor type 2; Insulin-like growth factor II Ala-25 Del; Preptin;PP1446; chromosome 11 open reading frame 43
Gene ID	3481
mRNA Refseq	NM_000612
Protein Refseq	NP_000603
MIM	147470
UniProt ID	P01344
Chromosome Location	11p15.5
Pathway	Apoptosis;Diabetes pathways; Endochondral Ossification; Hedgehog Singling Pathway; Regulationof Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth FactorBinding Proteins (IGFBPs)

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Function	growthfactor activity; hormone activity; insulin receptor binding; insulin-likegrowth factor receptor binding; protein binding; protein serine/threoninekinase activator activity; receptor activator activity
PDB rendering basedon 1igl.	

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