

Active Recombinant Human Des(1-3)Insulin-like Growth Factor 1

Cat. No. IGF1-325H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Des(1-3)Insulin-like Growth Factor1 (IGF1) was produced recombinantly.
Species	Human
ProteinLength	49-118 aa
Description	Human Des(1-3)Insulin-like Growth Factor 1 (IGF1) is a 67 amino acid analog of human IGF-I lacking the N-terminal tripeptide Gly-Pro-Glu. Human Des(1-3)IGF1 is more potent than IGF1 in vitro and in vivo. This increased potency is due to reduced binding of human Des(1-3)IGF1 to most of the IGF binding proteins which normally inhibit the biological actions of IGF1. Human Des(1-3)IGF1 binds to the Type 1 IGF receptor with similar affinity to full length IGF1. This is a high quality reagent for use in studies on cell growth, IGF receptors and IGFBPs.
Purity	>95 % (by HPLC and N-terminal sequence analysis).
Molecular Weight	7365 daltons – confirmed by Mass Spectrometry.
N-terminal Sequence Analysis	5 residues > 95 % single sequence.
Activity	Type 1 IGF receptor binding assay: ED ₅₀ < 10 ng/ml. IGF binding protein assay: ED ₅₀ > 100 ng/ml. Stimulation of protein synthesis in rat L6 myoblasts: ED ₅₀ < 10 ng/ml.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<0.1 EU/g.
State And Appearance	Lyophilized white powder. Dried from 0.1 M acetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa).
Storage	At least 2 years at 2 – 4°C (lyophilized).

GENE INFORMATION

Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens]
Synonyms	IBP1; IGF-I; IGF-IA; IGF1; MGF; Somatomedin-C; Mechano growth factor; insulin-like growth factor 1; insulin-like growth factor 1 (somatomedin C); somatomedin C; IGF1B_HUMAN; Insulin-like growth factor IB [Precursor]; IGF-IB.
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	608747
UniProt ID	P01343
Chromosome Location	12q23.2
Pathway	Focal adhesion; Glioma; Long-term depression; Melanoma; Prostate cancer; mTOR signaling pathway; Hemostasis

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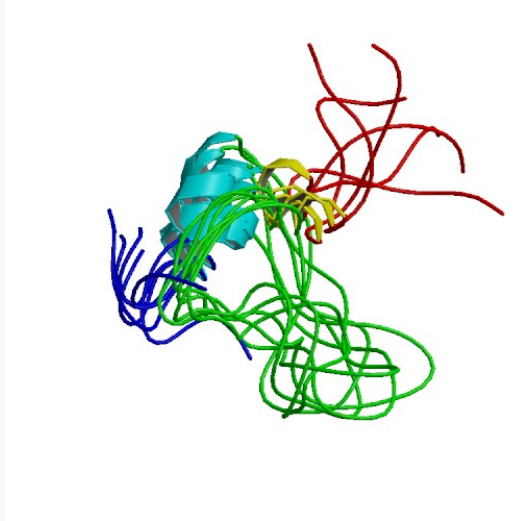
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Function

Growth factor activity; Hormone activity; Hormone activity; Insulin receptor binding; Insulin-like growth factor receptor binding; Protein binding

Insulin-like growth factor 1 (somatomedin C),



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