

# Recombinant Human Insulin-Like Growth Factor 1, GST-tag

Cat. No. IGF1-657H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	IGF1 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain fused to a GST tag and is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	<p>The somatomedins, or insulin-like growth factors (IGFs), comprise a family of peptides that play important roles in mammalian growth and development. IGF1 mediates many of the growth-promoting effects of growth hormone (GH; MIM 139250). Early studies showed that growth hormone did not directly stimulate the incorporation of sulfate into cartilage, but rather acted through a serum factor, termed "sulfation factor," which later became known as "somatomedin" (Daughaday et al., 1972). Three main somatomedins have been characterized: somatomedin C (IGF1), somatomedin A (IGF2; MIM 147470), and somatomedin B (MIM 193190) (Rotwein, 1986; Rosenfeld, 2003).</p>
<b>Form</b>	IGF1 is supplied in 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
<b>Physical Appearance</b>	Sterile Filtered clear solution.
<b>Storage</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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## GENE INFORMATION

**Gene Name** IGF1 insulin-like growth factor 1 (somatomedin C) [ Homo sapiens ]

**Official Symbol** IGF1

**Synonyms** IGF1; IGF1; IGF-I; IGF1A; insulin-like growth factor 1; MGF; IGF-IA; IGF-IB; somatomedin-C; OTTHUMP00000195080; OTTHUMP00000195081; OTTHUMP00000195082; OTTHUMP00000195083; OTTHUMP00000195084; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB

**Gene ID** 3479

**mRNA Refseq** NM\_000618

**Protein Refseq** NP\_000609

**MIM** 147440

**UniProt ID** P05019

**Chromosome Location** 12q23.2

**Pathway** Adipogenesis; Aldosterone-regulated sodium reabsorption; Androgen Receptor Signaling Pathway; Apoptosis; Diabetes pathways; Dilated cardiomyopathy; Endochondral Ossification; Focal Adhesion; Formation of Platelet plug; Glioma; Hemostasis; Hypertrophic cardiomyopathy (HCM); Id Signaling Pathway; Long-term depression; Melanoma; MicroRNAs in cardiomyocyte hypertrophy; Oocyte meiosis; Pathways in cancer; Platelet Activation; Platelet degranulation; Progesterone-

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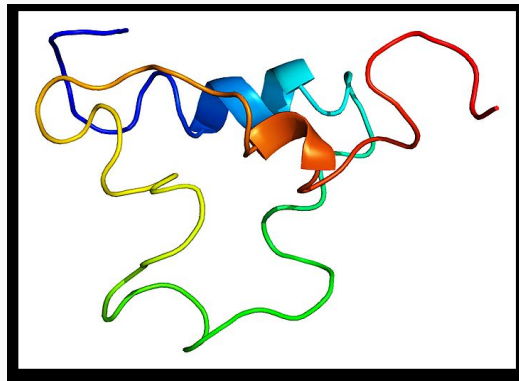
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mediated oocyte maturation; Prostate cancer; Response to elevated platelet cytosolic Ca<sup>2+</sup>; mTOR signaling pathway; p53 signaling pathway

**Function**

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

PDB rendering based on 1bqt.



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