

Active Recombinant Human IGF1 protein

Cat. No. IGF1-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 was expressed in Rice Grain.
Species	Human
Source	Rice Grain
Description	Human insulin-like growth factor-1, also known as IGF-1, has a molecular weight of 7.6 kD. It is hormone similar in molecular structure to insulin. It primarily functions through binding to its specific receptor, the insulin-like growth factor 1 receptor(IGF1R), to initiates intracellular signaling. IGF-1 is one of the most potent natural activators of the AKT signaling pathway, which stimulates cell growth and proliferation, and inhibits cell apoptosis. Thus, IGF-1 is widely deemed as a powerful substitute of insulin. The product is expressed as fusion protein with HSA, which increase its solubility and lifetime. The product presents a molecular weight about 74.5 kD, and has a much higher stability compared to IGF-1.
Form	It is lyophilized with phosphate.
Bio-activity	>1x10 ⁶ Units/mg.
Molecular Mass	74.5 kDa
Endotoxin	< 5 EU/μg
Purity	>95%

 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

Applications	1. Mammalian cell culture;2. Cosmetic and beauty care;3. Healthcare products
Storage	Stored at - 20 centigrade for at least 12 months. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized the product in strile water. Use as soon as possible after opening.
Shipping	Ice pack

GENE INFORMATION

Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens]
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGF1; IGF-I;
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440
UniProt ID	P05019
Chromosome Location	12q23.2

 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

Pathway

Adipogenesis, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem;

Function

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

 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