

Active Recombinant Chicken Insulin-Like Growth Factor 1 (Somatomedin C)

Cat. No. IGF1-322C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Chicken Insulin-Like Growth Factor 1 (Somatomedin C) was produced in <i>E. coli</i> .
Species	Chicken
Source	E.coli
Description	<p>Chicken Insulin-like Growth Factor1 (Chicken IGF1) is a polypeptide comprising 70 amino acids, eight of which differ from the amino acid sequence of human IGF1. Chicken IGF1 has been shown to stimulate growth in many cell types, including rat L6 myoblasts and chicken embryo fibroblasts, hepatocytes, adipocytes and myoblasts. GroPep's Receptor Grade chicken IGF1 is a high quality research reagent particularly suited for use in avian cells and in vivo growth studies or for other general research purposes.</p>
Purity	>95 % (by HPLC and N-terminal sequence analysis).
Molecular Weight	7738 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. Stimulation of protein synthesis in rat L6 myoblasts: ED ₅₀ <30 ng/ml.

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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) [Gallus gallus]
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; Insulin-like growth factor IB [Precursor]; IGF-IB.
Gene ID	418090
mRNA Refseq	NM_001004384
Protein Refseq	NP_001004384
UniProt ID	P18254
Pathway	Focal adhesion; Progesterone-mediated oocyte maturation; mTOR signaling pathway; p53 signaling pathway
Function	growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding

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