

Recombinant Salmon/Trout Insulin-like Growth Factor I

Cat. No. LOC100136741-451S **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Salmon/Trout
Source	E.coli
Description	Recombinant salmon (<i>Oncorhynchus kisutch</i>)/ trout (<i>O.mykiss</i>) insulin-like growth factor-I (rsIGF-I) is a 70 amino acid polypeptide. IGF-I stimulates growth and differentiation in most cell types. IGF-I mediates many of the anabolic properties of growth hormone.
Molecular Weight	Theoretical: 7704 daltons. By Mass Spectrometry: 7719 daltons. Amino acid sequence and total amino acid analysis confirmed that the recombinant product is salmon/trout IGF-I.
N-terminal Sequence Analysis Of Recombinant Product	5 residues >95% single sequence.
Purity	> 95% (as determined by HPLC and N-terminal sequence analysis).
Appearance	White Powder.
Biological Activity	Stimulation of protein synthesis in L6 myoblasts -ED50 32.5 ng/ml.

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Endotoxin (LAL)	< 0.1 EU/ug.
Reconstitution	Dissolve in dilute acid (e.g. 10mM HCl or 0.1M acetic acid), aliquot and store at -20°C. For lower dilutions (e.g.< 1mg/ml) inclusion of a carrier protein is recommended. Avoid freeze-thaw cycles.
State	Lyophilised from 0.1 M acetic acid: under dry nitrogen @ slight vacuum (-25kPa).
Stability	At least 2 years at 2-4°C (lyophilised).

GENE INFORMATION

Gene Name	LOC100136741 insulin-like growth factor I [Oncorhynchus mykiss]
Synonyms	insulin-like growth factor I; igf1; LOC100136741; IGF-I; somatomedin
Gene ID	100136741
mRNA Refseq	NM_001124696
Protein Refseq	NP_001118168
UniProt ID	Q02815

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PDB rendering based
on 1bqt.

