

Chicken IGF-I

Description

Chicken insulin-like growth factor-I (IGF-I) is a single chain 70 amino acid polypeptide that shares structural homology with human IGF-I and chicken IGF-II. Eight amino acids are different compared to the sequence of human IGF-I. Chicken IGF-I has been shown to stimulate growth and differentiation in many cell types including chick embryo fibroblasts. Receptor Grade chicken IGF-I is a high quality research reagent particularly for use in studies on cellular and animal growth, for use in specific assays for chicken IGF-I and other general research purposes.

References:

Upton Z *et al* (1992) Journal of Molecular Endocrinology **9**, 83-92
McMurtry JP *et al* (1997) Domestic Animal Endocrinology **14**, 199-229

Source:

Produced in *E.coli*.

Molecular Weight:

7738 daltons

Purity:

>95 % (by HPLC analysis)

N-terminal sequence:

Analysis of 5 residues

Biological Activity:

IGF type I receptor binding assay ($ED_{50} < 10$ ng/ml);
Stimulation of protein synthesis in rat L6 myoblasts
($ED_{50} < 30$ ng/ml)

Endotoxin:

< 0.1 EU/ μ g

Appearance:

White powder freeze-dried from 0.1M acetic acid and stored under nitrogen at a slight vacuum.

Storage/Stability:

At least 2 years at 2-4°C (as a freeze dried product).

Reconstitution:

Handling of GroPep IGF-I, IGF-II and IGF analogues

Detection:

Procedure for the Iodination of IGF peptides

Determination of IGF-I or IGF-II in a range of species by

Radioimmunoassay (RIA)

Procedure for Western Ligand blotting using iodinated IGF-I or IGF-II

Product Codes:

Chicken IGF-I

100 μ g

HU100

Related Products:

Chicken IGF-II

Human IGF-I antiserum (Rabbit)

****NOT FOR USE IN HUMANS****

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