GroPep® Bioreagents

Tuna IGF-I *(Thunnus maccoyii)*

Description
Tuna insulin-like growth factor-I (IGF-I) is a single chain 68 amino acid polypeptide that shares structural homology with human IGF-I. Seventeen amino acids are different compared to the sequence of human IGF-I. Three of these changes occur in the B-domain, seven in the variable C-domain, two in the A-domain and five in the D-domain. Tuna IGF-I can be used for a variety of *in vivo* and *in vitro* applications including those investigating the actions of growth hormone.

References Dyer AR *et al* (2004) General & Comparative Endocrinology **135**, 268-275

Source: Produced in *E.coli.*
Molecular Weight: 7481 daltons
Purity: >95 % (by HPLC analysis)
N-terminal sequence: Analysis of 5 residues
Biological Activity: Stimulation of protein synthesis in rat L6 myoblasts (ED_{50} < 50 ng/ml)
Endotoxin: < 0.1 EU/µg
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)

Product Codes:

Tuna IGF-I	**100 µg**	**AEU100**
	500 µg	**AEU500**

Related Products: Barramundi IGF-I antiserum (Rabbit)

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

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