



GroPep Bioreagents

Rat IGF-I

Description

Rat insulin-like growth factor-I (IGF-I) is a single chain 70 amino acid polypeptide that shares structural homology with human and rat IGF-II. Only three amino acids are different compared to the sequence of human IGF-I. Rat IGF-I has been shown to stimulate growth in L6 myoblasts and other cell lines. Receptor Grade rat IGF-I is a high quality research reagent particularly for use in studies on cellular and animal growth, for use in specific assays for rat IGF-I and other general research purposes.

References

Shimatzu A and Rotwein P. (1987) Journal of Biological Chemistry **262**, 7894-7900
Upton Z *et al* (1996) Journal of Endocrinology **149**, 379-387

Source:

Produced in *E.coli*.

Molecular Weight:

7687 daltons

Purity:

>95 % (by HPLC analysis)

N-terminal sequence:

Analysis of 5 residues

Biological Activity:

IGF type I receptor binding assay (ED₅₀ < 10 ng/ml)
Stimulation of protein synthesis in rat L6 myoblasts (ED₅₀ < 30 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 and Pricing

Rat IGF-I

100 μg

RU100

US\$100

1 mg

RM001

US\$1000

Related Products:

Rat IGF-II
Rat IGF-I antiserum (Rabbit)
IGF-I antibody for immunohistochemistry
Rat IGF-I monoclonal antibody

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

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