

GroPep Bioreagents

Rat Growth Hormone

Description

Growth hormone (GH) is a single-chain polypeptide hormone which is synthesized, stored and secreted by the somatotroph cells of the anterior pituitary gland. It stimulates growth, cell division and regeneration and controls metabolism both directly and through the generation of IGF-I. For example, GH acts by interacting with specific receptors on the cell surface where it activates the MAPK/ERK pathway and directly stimulates division and multiplication of chondrocytes. GH also activates the JAK-STAT signalling pathway and the production of IGF-I. The liver is a major target organ and along with adipocytes, is the principal site of IGF-I production which mediates some of the effects of GH.

GroPep Bioreagents recombinant methionyl Rat Growth Hormone is a 191 amino acid protein designed for use in research and development using rodent models and cell systems.

References

Beattie J & Flint DJ (1993) Journal of Endocrinology **139**, 349-352

Source:

Produced in *E.coli*.

Molecular Weight:

21.94 kDa

Purity:

97 % monomer by Gel filtration chromatography

Endotoxin:

< 0.1 EU/μg

Appearance:

Lyophilized powder produced under nitrogen at a slight vacuum (~25kPa) from 10 mM sodium phosphate buffer pH 8.8, containing m-rGH: mannitol: glycine (1:5:1 w/w)

Storage/Stability:

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

Reconstitution:

Handling of GroPep Bioreagents Growth Hormones

Product Codes and Pricing

Rat GH

100 μg

GHCU100

1 mg

GHCM001

5 mg

GHCM005

Related Products:

Rat Growth Hormone polyclonal antibody

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

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