Bovine IGF-1 (recombinant)

Alias: Somatomedin C  Catalog #: 6484
Size: 5 ug  Research Use Only

Molecular Weight: 7.6 kDa
Source: Yeast. Recombinant Bovine IGF-1 was produced in yeast and, therefore, does not have endotoxin. It is naturally folded and post-translationally modified.
Formulation: Lyophilized without carrier protein.
Purity: >95% as visualized by SDS-PAGE analysis.
Purification: Ion-exchange chromatography.
Bioactivity: In testing
Entrez Gene ID: 281239
Number of Amino Acids: 70
Amino Acid Sequence: GPETLCGAEL VDALQFVC GD RG FYFNKPTG YGSSSRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA (70)
Country of Origin: USA
Reconstitution: Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Stability and Storage: Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

Applications:
Background: Insulin-like growth factor 1 (IGF-1), also called somatomedin C, is a primary mediator of the effects of growth hormone (GH). Growth hormone stimulates the liver to produce IGF-1. IGF-1 then stimulates systemic body growth, and has growth-promoting effects on almost every cell in the body, especially skeletal muscle, cartilage, bone, liver, kidney, nerves, skin, hematopoietic cells, and lungs. In addition to the insulin-like effects, IGF-1 can also regulate cell growth and development, especially in nerve cells, as well as cellular DNA synthesis.