Recombinant rat IGF-1 protein

Catalog Number: ATGP3840

PRODUCT INFORMATION

Expression system
E.coli

Domain
49-118aa

UniProt No.
P08025

NCBI Accession No.
NP_001075948

Alternative Names
Insulin-like growth factor I isoform d, IGF, IGF-I, Somatomedin

PRODUCT SPECIFICATION

Molecular Weight
7.8 kDa (71aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
IGF-1, also known as Insulin-like growth factor I isoform d, is mitogenic polypeptide growth factors that stimulate the proliferation and survival of various cell types including muscle, bone, and cartilage tissue in vitro. IGF-1 is predominantly produced by the liver, although a variety of tissues produce the IGFs at distinctive times. The IGF-1 belongs to the insulin gene family, which also contains insulin and relaxin. The IGF-1 is similar by structure and

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function to insulin, but has a much higher growth-promoting activity than insulin. Recombinant rat IGF-1 protein, was expressed in E. coli and purified by using conventional chromatography

Amino acid Sequence

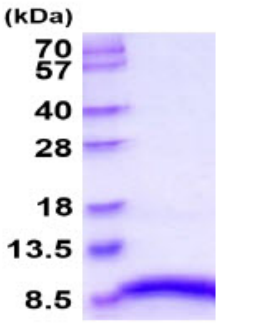
MGPETLCGAE LVDALQFVCG PRGFYFNKPT GYGSSIRRAP QTGIVDECCF RSCDLRRLEM YCAPLKPTKS A

General References

Zumstein P., et al. (1987) J Biol Chem. 262(33): 11252-60.
Rabinovsky ED., et al. (2004) Neurol Res. 26(2): 204-10.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.