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Datasheet for ABIN6699970 IGF1 Protein

2 Images



Overview

Quantity:	50 µg
Target:	IGF1
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Rat Insulin-like Growth Factor I Recombinant Protein
Purification:	Insulin-like Growth Factor I purity was determined to be greater than 98% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically \leq 1 EU/µg protein.
Biological Activity Comment:	The activity is measured in a proliferation assay using FDC-P1 cells and is typically less than 100 ng/mL.

Target Details

Target:	IGF1
Alternative Name:	Igf1 (IGF1 Products)
Background:	Synonyms: Somatamedin C, mechano growth factor, IGF-IA
	Background: Insulin-like Growth Factor I, IGF-I, is a growth factor produced in response to

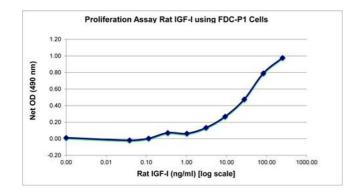
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	growth hormone-stimulated liver tissue and can be found circulating throughout the body and throughout life. IGF-I activates the IGF-I receptor (IGF1R) and the insulin receptor to mediate growth of almost every cell of the body. IGF-I is known as one of the most potent activators of
	the AKT signaling pathway which is known to be a stimulator of proliferation and an inhibitor of programmed cell death. Mature human IGF-I is 100 % homologous with bovine and porcine proteins. Recombinant rat IGF-I is a non-glycosylated protein, containing 70 amino acids, with a
	molecular weight of 7.7 kDa.
UniProt:	P08025
Pathways:	RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Hormone Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Receptor Signaling, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Stem Cell Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Activated T Cell Proliferation, Positive Regulation of fat Cell Differentiation
Application Details	
Application Notes:	Other: User Optimized Application_Note: Insulin-like Growth Factor I Recombinant Protein has been tested by SDS- PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti- Insulin-like Growth Factor I in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 50µL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C

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Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This
	product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier
	protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and
	freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each
	opening to dislodge contents from the cap and to clarify if contents are not clear after standing
	at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Rat Insulin-like Growth Factor I Recombinant Protein Bioactivity of Rat Insulin-like Growth Factor I Recombinant Protein. FDC-P1 cells were cultured with 0 to 250 ng/mL Rat IGF-I. Cell proliferation was measured after 48 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Rat IGF-I is 20-30 ng/mL.

97 66 55 36 31 21 14 6

SDS-PAGE

Image 2. SDS-PAGE of Rat Insulin-like Growth Factor I Recombinant Protein SDS-PAGE of Rat Insulin-like Growth Factor I Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Rat IGF-I in non-reducing conditions . Rat IGF-I has a predicted MW of 7.6 kDa.