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Datasheet for ABIN6699960 IGF1 Protein

2 Images



Overview

Quantity:	20 µg
Target:	IGF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human 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 determined by the dose-dependent proliferation of mouse FDC-P1 cells is typically less than 1.0 ng/mL.

Target Details

Target:	IGF1
Alternative Name:	IGF1 (IGF1 Products)
Background:	Synonyms: Somatamedin C, mechano growth factor (MGF), IGF-IA
	Background: Insulin-like Growth Factor I, IGF-I, is a growth factor produced by the liver when

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	stimulated with growth hormone and can be found circulating throughout the body . 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 human IGF-I is a non-glycosylated protein, containing 70 amino acids, with a
	molecular weight of 7.7 kDa.
UniProt:	P05019
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: 20 µL (20-200 µL)
Buffer:	Buffer: 0.1 % Trifluoroacetic acid
	Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C

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

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Insulin-like Growth Factor I Recombinant Protein Bioactivity of Human Insulin-like Growth Factor I Recombinant Protein. FDC-P1 cells were cultured with 0 to 250 ng/mL Human 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 Human IGF-I is 0.65-0.98 ng/mL. This value is comparable to the competitor sample and to the expected range of less than 1 ng/mL.

SDS-PAGE

Image 2. SDS-PAGE of Human Insulin-like Growth Factor I Recombinant Protein SDS-PAGE of Human Insulin-like Growth Factor I Recombinant Protein. Lane 1: 1 µg Human IGF-I in non-reducing conditions . Lane 2: 1 µg Human IGF-I in reducing conditions (+). Lane 3: Molecular weight marker. Human IGF-I has a predicted MW of 7.6 kDa.

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