

Datasheet for ABIN934921

IGF1 Protein (AA 1-115)





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Quantity:	100 μg
Target:	IGF1
Protein Characteristics:	AA 1-115
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)
Product Details	
Sequence:	MGPETLCGAE LVDALQFVCG DRGFYFNKPT GYGSSSRRAP QTGIVDECCF RSCDLRRLEM
	YCAPLKPAKS A
Characteristics:	Purified recombinant Human IGF1 protein
	Expression System: E.coli
	Bioactivity: The ED50 for this effect is < 3.6 ng/mL. Measured in a cell proliferation assay using
	MCF7 cell.
	Molecular weight on SDS-PAGE will appear higher.
Purity:	> 95 % pure
Target Details	
Target:	IGF1

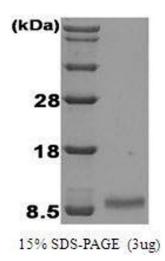
Target Details

Alternative Name:	IGF1 (IGF1 Products)
Background:	The Insulin-like growth factor-1(IGF-1) is a mitogenic polypeptide growth factors that stimulates
	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-1s are similar in structure and function to insulin, but have a much
	higher growth-promoting activity than insulin. This recombinant human IGF-I is a globular
	protein containing 70 amino acids, and 3 intra-molecular disulfide bonds. Recombinant IGF-1
	was expressed in E. coli and purified by conventional chromatography, after refolding of the
	isolated inclusion bodies in a renaturation buffer.
	Alternative Names: MGF protein, IGF 1 protein, IGF-IA protein, Insulin like growth factor 1
	protein, Insulin like growth factor 1 (somatomedin C) protein, Insulin like growth factor IB
	protein, IGF1 protein, IGFI protein, IGF IB protein, IGF1, IGF-1, IGF 1, IBP1 protein, IGF-1 protein,
	Insulin-like growth factor-1 protein, IGF1 protein, Mechano growth factor protein, IGF-1 protein, ,
	Somatomedin C protein, IGFIA protein, Insulin like growth factor IA protein, Insulin-like growth
	factor-1 IGF IA protein, IBP1 protein, Somatomedin-C protein
Molecular Weight:	7.7 kDa (71 AA)
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:	IGF1 protein has been used in SDS PAGE and may be suitable for use in other assays to be
	determined by the end user.
Assay Procedure:	Cell line: MCF7 (human) Maintenance Condition: RPMI 1640 containing 10 % FBS Assay
	Medium: serum free RPMI 1640 Cell Density: 2 x 10,000 cells/well (96 well plate, final volume
	100 μ L) Serum Free Starvation: 24 h with RPMI1640 Incubation Time: 40 hr (after sample
	treatment) Concentration Range: 0.39 ng/mL - 29 ng/mL Detection Method: BrdU assay
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Supplied as a liquid in PBS, pH 7.4.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	RT/-20 °C
Storage Comment:	Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or - 70 °C for long term storage.

Images



SDS-PAGE

Image 1. Figure annotation denotes ug of protein loaded and % gel used.