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Datasheet for ABIN2017987 IGF1 Protein (AA 49-118)



Overview	
Quantity:	50 µg
Target:	IGF1
Protein Characteristics:	AA 49-118
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Characteristics:	ED50 < 10 ng/mL, measured by a cell proliferation assay using FDCP-1 cells, corresponding to a
	specific activity of > 1x10^5 units/mg.
	AA 49-118, expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/ μ g, determined by LAL method.
Target Details	
Target:	IGF1

Alternative Name:	Insulin-Like Growth Factor I (IGF-I) (IGF1 Products)
Background:	Insulin-like Growth Factor I (IGF-I) is a single chain 7 kDa growth-promoting polypeptide
	originally identified as somatomedin-c. It belongs to the IGF family of peptides, which also
	includes IGF-II and insulin. The gene expression of IGF-I is mainly regulated by Growth

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	Hormone, and IGF-I executes its functions via signaling through transmembrane tyrosine
	receptors(IGF Receptors). Most circulating IFG-I is associated with the IGF Binding Protein 3
	(IGFBP-3), and the IGFBPs may inhibit the actions of IGFs by competing against the IGF
	Receptors. IGF-I is active in post-natal and adult animals, and is crucial for somatic growth, as
	IGF-I null mice show marked retardation in utero. IGF-I is involved in the carcinogenesis, and
	related to the prostate cancer as well. Recombinant rat Insulin-like Growth Factor I (rrIGF-I)
	produced in E. coli is a single non-glycosylated polypeptide chain containing 71 amino acids. A
	fully biologically active molecule, rrIGF-I has a molecular mass of 7.8 kDa analyzed by reducing
	SDS-PAGE.
	Synonyms: Somatomedin C, IGF-I, IGFIA, IGF1
Molecular Weight:	7.8 kDa, observed by reducing SDS-PAGE.
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	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant rat Insulin-like Growth Factor I (rrIGF-I) remains stable up to 6 months
	at -80 °C from date of receipt. Upon reconstitution, rrIGF-I remains stable up to 2 weeks at 4 °C
	or up to 3 months at -20 °C.
Expiry Date:	6 months

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