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Datasheet for ABIN7505442 IGF1 Protein (AA 48-153) (His tag)



Overview

Quantity:	100 µg
Target:	IGF1
Protein Characteristics:	AA 48-153
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGF1 protein is labelled with His tag.

Product Details

Sequence:	Ala 48-Met 153
Characteristics:	A DNA sequence encoding the mouse IGF1/IGF-I/IGF-1 protein (P05017) (Ala 48-Met 153) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	IGF1
Alternative Name:	IGF1 (IGF1 Products)
Background:	Abbreviation: IGF1,IGF-1
	Target Synonym: IGF1,IGF-1,insulin-like growth factor 1,Insulin-like growth factor
	I,Somatomedin C,somatomedin-C
	Background: nsulin-like growth factor I (IGF1) belongs to the family of insulin-like growth

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	factors that are structurally homologous to proinsulin. Mouse IGF-I is synthesized as two precursor isoforms with alternate N- and C-terminal propeptides. These isoforms are differentially expressed by various tissues. Mature mouse IGF-I shares 94 % and 99 % aa sequence identity with human and rat IGF-I, respectively, and exhibits cross-species activity. It shares 60 % aa sequence identity with mature mouse IGF-II. IGF-I induces the proliferation, migration, and differentiation of a wide variety of cell types during development and postnatally. It plays an important role in muscle regeneration and tumor progression. IGF-I binds IGF-I R,
	IGF-II R, and the insulin receptor. IGF-I association with IGF binding proteins increases its plasma half-life and modulates its interactions with receptors.
Molecular Weight:	Calculated MW: 11.55 kDa Observed MW: 14 kDa
UniProt:	P05017
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
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months

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