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Datasheet for ABIN3132506 IGF1 Protein (AA 49-118) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	IGF1
Protein Characteristics:	AA 49-118
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGF1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY
	САРЬКРТКА
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse lgf1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein

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Product Details	
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	IGF1
Alternative Name:	Igf1 (IGF1 Products)
Background:	The insulin-like growth factors, isolated from plasma, are structurally and functionally related to
	insulin but have a much higher growth-promoting activity. May be a physiological regulator of
	[1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates
	glucose transport in bone-derived osteoblastic (PyMS) cells and is effective at much lower
	concentrations than insulin, not only regarding glycogen and DNA synthesis but also with

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events leading to activation of the PI3K-AKT/PKB and the Ras-MAPK pathways. Binds to integrins ITGAV:ITGB3 and ITGA6.ITGB4. Its binding to integrins and subsequent ternary complex formation with integrins and IGFR1 are essential for IGF1 signaling. Induces th phosphorylation and activation of IGFR1, MAPK3/ERK1, MAPK1/ERK2 and AKT1 (By sir (ECC.0000250)UniProrKB.P05019, ECC.0000269)PubMed:21496647). Molecular Weight: 8.6 kD. Including tag. UniProt: P05017 Pathways: RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Horn Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Biosynthetic Process Cell Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Activated T Cell Prolifera Positive Regulation of f at Cell Differentiation Application Details In addition to the applications listed above we expect the protein to work for functional s as well. As the protein has not been tested for functional studies yet we cannot offer a g though. Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all poi options with you in detail to assure that you receive your protein of interest. Restrictions: For Research Use only	imilarity). in the olfactory of IGF1R, norylates signaling	
complex formation with integrins and IGFR1 are essential for IGF1 signaling. Induces the phosphorylation and activation of IGFR1, MAPK3/ERK1, MAPK1/ERK2 and AKT1 (By sime (ECO:0000250]UniProtKB:P05019, ECO:0000269]PubMed:21496647).Molecular Weight:8.6 kD. Including tag.UniProt:P05017Pathways:RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Horm Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Receptor Signaling Pathway.Pathways:RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Horn Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Biosynthetic Process Cell Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Activated T Cell Prolifera Positive Regulation of fat Cell DifferentiationApplication DetailsIn addition to the applications listed above we expect the protein to work for functional s as well. As the protein has not been tested for functional studies yet we cannot offer a c though.Comment:Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all point options with you in detail to assure that you receive your protein of interest.Restrictions:For Research Use only		
phosphorylation and activation of IGFR1, MAPK3/ERK1, MAPK1/ERK2 and AKT1 (By sir (ECO:0000250 UniProtKB:P05019, ECO:0000269 PubMed:21496647). Molecular Weight: 8.6 kD. Including tag. UniProt: P05017 Pathways: RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Horn Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Receptor Signaling Pathway. Peptide Horn Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Biosynthetic Process Cell Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Activated T Cell Prolifera Positive Regulation of fat Cell Differentiation Application Details In addition to the applications listed above we expect the protein to work for functional as well. As the protein has not been tested for functional studies yet we cannot offer a g though. Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all post options with you in detail to assure that you receive your protein of interest. Restrictions: For Research Use only		
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	gest a higher	Comment:
Handling		Restrictions:
		Handling
Format: Liquid		Format:
Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufac	nanufacturer.	Buffer:

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process