antibodies

## Datasheet for ABIN3126376 ACVR1C/ALK7 Protein (AA 135-493) (His tag)





Overview

Quantity:	1 mg
Target:	ACVR1C/ALK7 (ACVR1C)
Protein Characteristics:	AA 135-493
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR1C/ALK7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	ACQDRQCTYR KTKRHNVEEA LAEYSLVNAG KTLKDLIYDA TASGSGSGLP LLVQRTIART
	IVLQEIVGKG RFGEVWHGRW CGEDVAVKIF SSRDERSWFR EAEIYQTVML RHENILGFIA
	ADNKDNGTWT QLWLVSEYHE QGSLYDYLNR NIVTVAGMVK LALSIASGLA HLHMEIVGTQ
	GKPAIAHRDI KSKNILVKKC DTCAIADLGL AVKHDSIMNT IDIPQNPKVG TKRYMAPEML
	DDTMNLSIFE SFKRADIYSV GLVYWEIARR CSVGGVVEEY QLPYYDMVPS DPSIEEMRKV
	VCDQKLRPNL PNQWQSCEAL RVMGRIMREC WYANGAARLT ALRVKKTISQ LCVKEDCKA
	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 Acvr1c 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).

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Product Details	
	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
	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:
	1. 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. 2. 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:	ACVR1C/ALK7 (ACVR1C)
Alternative Name:	Acvr1c (ACVR1C Products)
Background:	Serine/threonine protein kinase which forms a receptor complex on ligand binding. The

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## Target Details

	receptor complex consisting of 2 type II and 2 type I transmembrane serine/threonine kinases.
	Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then
	bind and activate SMAD transcriptional regulators, SMAD2 and SMAD3. Receptor for activin AB,
	activin B and NODAL. Plays a role in cell differentiation, growth arrest and apoptosis.
Molecular Weight:	41.6 kDa Including tag.
UniProt:	Q8K348
Pathways:	Negative Regulation of Hormone Secretion, Positive Regulation of Endopeptidase Activity
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	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 higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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

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