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Datasheet for ABIN3092058 DDR1 Protein (AA 439-913) (His tag)

Image



Overview

Quantity:	1 mg
Target:	DDR1
Protein Characteristics:	AA 439-913
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDR1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	WRLHWRRLLS KAERRVLEEE LTVHLSVPGD TILINNRPGP REPPPYQEPR PRGNPPHSAP
	CVPNGSALLL SNPAYRLLLA TYARPPRGPG PPTPAWAKPT NTQAYSGDYM EPEKPGAPLL
	PPPPQNSVPH YAEADIVTLQ GVTGGNTYAV PALPPGAVGD GPPRVDFPRS RLRFKEKLGE
	GQFGEVHLCE VDSPQDLVSL DFPLNVRKGH PLLVAVKILR PDATKNARND FLKEVKIMSR
	LKDPNIIRLL GVCVQDDPLC MITDYMENGD LNQFLSAHQL EDKAAEGAPG DGQAAQGPTI
	SYPMLLHVAA QIASGMRYLA TLNFVHRDLA TRNCLVGENF TIKIADFGMS RNLYAGDYYR
	VQGRAVLPIR WMAWECILMG KFTTASDVWA FGVTLWEVLM LCRAQPFGQL TDEQVIENAG
	EFFRDQGRQV YLSRPPACPQ GLYELMLRCW SRESEQRPPF SQLHRFLAED ALNTV
	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. Human DDR1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process

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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
	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.
	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:	DDR1
Alternative Name:	DDR1 (DDR1 Products)

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Target Details

Background:	Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell
	attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration,
	differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that
	involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the
	extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and
	MMP9, and thereby facilitates cell migration and wound healing. Required for normal blastocyst
	implantation during pregnancy, for normal mammary gland differentiation and normal lactation.
	Required for normal ear morphology and normal hearing (By similarity). Promotes smooth
	muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in
	tumor cell invasion. Phosphorylates PTPN11. {ECO:0000250, ECO:0000269 PubMed:12065315,
	ECO:0000269 PubMed:16234985, ECO:0000269 PubMed:16337946,
	ECO:0000269 PubMed:19401332, ECO:0000269 PubMed:20093046,
	ECO:0000269 PubMed:20432435, ECO:0000269 PubMed:20884741,
	ECO:0000269 PubMed:21044884, ECO:0000269 PubMed:9659899}.
Molecular Weight:	53.9 kDa Including tag.
UniProt:	Q08345
Pathways:	RTK Signaling, Smooth Muscle Cell Migration

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:	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.

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Handling

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

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