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KLRK1 Protein (AA 90-232) (His tag)

Datasheet for ABIN3131734

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OVERVIEW	
Quantity:	1 mg
Target:	KLRK1
Protein Characteristics:	AA 90-232
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRK1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	FKETFQPVLC NKEVPVSSRE GYCGPCPNNW ICHRNNCYQF FNEEKTWNQS QASCLSQNSS
	LLKIYSKEEQ DFLKLVKSYH WMGLVQIPAN GSWQWEDGSS LSYNQLTLVE IPKGSCAVYG
	SSFKAYTEDC ANLNTYICMK RAV
	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 Klrk1 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 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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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

KLRK1

Endotoxin Level:

Protein is endotoxin free.

Grade:

Target:

Crystallography grade

Target Details

Alternative Name:	Klrk1 (KLRK1 Products)
Background:	Function as an activating and costimulatory receptor involved in immunosurveillance upon
	binding to various cellular stress-inducible ligands displayed at the surface of autologous tumor
	cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune
	responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory

	receptor for T-cell receptor (TCR) in CD8(+) T-cell-mediated adaptive immune responses by
	amplifying T-cell activation. Stimulates perforin-mediated elimination of ligand-expressing
	tumor cells. Signaling involves calcium influx, culminating in the expression of TNF-alpha.
	Participates in NK cell-mediated bone marrow graft rejection. May play a regulatory role in
	differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of
	MHC class I-related glycoproteins including RAET1A, RAET1B, RAET1C, RAET1D, RAET1E, H60
	and MULT1. {ECO:0000269 PubMed:10894171, ECO:0000269 PubMed:11248803,
	ECO:0000269 PubMed:11557981, ECO:0000269 PubMed:11567106,
	ECO:0000269 PubMed:12150888, ECO:0000269 PubMed:12370332,
	ECO:0000269 PubMed:12426564, ECO:0000269 PubMed:12426565,
	ECO:0000269 PubMed:15189740, ECO:0000269 PubMed:16086018,
	ECO:0000269 PubMed:18394936, ECO:0000269 PubMed:19631564,
	ECO:0000269 PubMed:21898152, ECO:0000269 PubMed:23298206}.
Molecular Weight:	17.4 kDa Including tag.
UniProt:	054709
Pathways:	Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin,
Pathways:	Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process
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Application Details	
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Application Details Application Notes:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process 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
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Pathways: Application Details Application Notes: Comment: Restrictions: Handling Format:	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. 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.
Application Details Application Notes: Comment: Restrictions: Handling	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. 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. For Research Use only

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)