

Datasheet for ABIN3131733 KLRK1 Protein (AA 1-232) (Strep Tag)



Overview

Quantity:	250 µg
Target:	KLRK1
Protein Characteristics:	AA 1-232
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRK1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MALIRDRKSH HSEMSKCHNY DLKPAKWDTS QEQQKQRLAL TTSQPGENGI IRGRYPIEKL
	KISPMFVVRV LAIALAIRFT LNTLMWLAIF KETFQPVLCN KEVPVSSREG YCGPCPNNWI
	CHRNNCYQFF NEEKTWNQSQ ASCLSQNSSL LKIYSKEEQD FLKLVKSYHW MGLVQIPANG
	SWQWEDGSSL SYNQLTLVEI PKGSCAVYGS SFKAYTEDCA NLNTYICMKR AV
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	• Made in Germany - from design to production - by highly experienced protein experts.
	Protein expressed with ALiCE® and purified in one-step affinity chromatography
	These proteins are normally active (enzymatically functional) as our customers have

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• 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 try to ensure that you receive soluble 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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	KLRK1
Alternative Name:	Klrk1 (KLRK1 Products)
Background:	NKG2-D type II integral membrane protein (Killer cell lectin-like receptor subfamily K member 1)

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	(NK cell receptor D) (NKG2-D-activating NK receptor) (CD antigen CD314),FUNCTION:
	Functions 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. {EC0:0000269 PubMed:10894171, EC0:0000269 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:	26.7 kDa
UniProt:	054709
Pathways:	Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin,
	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process
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 guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional

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Application Details	
	components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months