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Datasheet for ABIN3118381 SLAMF7 Protein (AA 23-335) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	SLAMF7
Protein Characteristics:	AA 23-335
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLAMF7 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	SGPVKELVGS VGGAVTFPLK SKVKQVDSIV WTFNTTPLVT IQPEGGTIIV TQNRNRERVDFPDGGYSLKL SKLKKNDSGI YYVGIYSSSL QQPSTQEYVL HVYEHLSKPK VTMGLQSNKNGTCVTNLTCC MEHGEEDVIY TWKALGQAAN ESHNGSILPI SWRWGESDMT FICVARNPVSRNFSSPILAR KLCEGAADDP DSSMVLLCLL LVPLLLSLFV LGLFLWFLKR ERQEEYIEEKKRVDICRETP NICPHSGENT EYDTIPHTNR TILKEDPANT VYSTVEIPKK MENPHSLLTMPDTPRLFAYE NVISequence 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 SLAMF7 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	3. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatograph. 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:	SLAMF7

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Alternative Name:	SLAMF7 (SLAMF7 Products)
Background:	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM
	receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation
	and differentiation of a wide variety of immune cells and thus are involved in the regulation and
	interconnection of both innate and adaptive immune response. Activities are controlled by
	presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or
	SH2D1B/EAT-2. Isoform 1 mediates NK cell activation through a SH2D1A-independent
	extracellular signal-regulated ERK-mediated pathway (PubMed:11698418). Positively regulates
	NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream
	signaling implicates PLCG1, PLCG2 and PI3K (PubMed:16339536). In addition to heterotypic
	NK cells-target cells interactions also homotypic interactions between NK cells may contribute
	to activation. However, in the absence of SH2D1B, inhibits NK cell function. Acts also inhibitory
	in T-cells (By similarity). May play a role in lymphocyte adhesion (PubMed:11802771). In LPS-
	activated monocytes negatively regulates production of proinflammatory cytokines
	(PubMed:23695528). {ECO:0000250 UniProtKB:Q8BHK6, ECO:0000269 PubMed:11698418,
	ECO:0000269 PubMed:11802771, ECO:0000269 PubMed:16339536,
	ECO:0000269 PubMed:23695528, ECO:0000269 Ref.4}., Isoform 3 does not mediate any NK ce
	activation.
Molecular Weight:	36.3 kDa Including tag.
UniProt:	Q9NQ25
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

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Handling		
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)	

Images

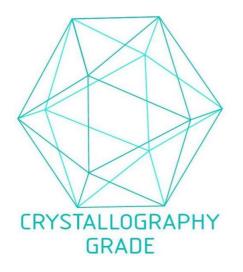


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process