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## Datasheet for ABIN3121072 Stim2 Protein (AA 15-218) (His tag)

Image



## Overview

1 mg
Stim2
AA 15-218
Mouse
Escherichia coli (E. coli)
Recombinant
This Stim2 protein is labelled with His tag.
Western Blotting (WB), Crystallization (Crys), ELISA, SDS-PAGE (SDS)
CDLVPRHLRG RRASGSAGAA ASPSAAAAGE RQALLTDPCM SLSPPCFTEE DRFSLEALQT
IHKQMDDDKD GGIEVDESDE FIREDMKYKD ATNKHSHLHR EDKHITVEDL WKQWKTSEVH
NWTLEDTLQW LIEFVELPQY EKNFRDNNVK GTTLPRIAVH ETSFMISQLK ISDRSHRQKL
QLKALDVVLF GPLTRPPHNW MKDF
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 Stim2 Protein (raised in E. Coli) 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.

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	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 bacterial culture:
	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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	Stim2

Alternative Name:	Stim2 (Stim2 Products)
Background:	Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion
	of intracellular $Ca(2+)$ stores. Functions as a highly sensitive $Ca(2+)$ sensor in the endoplasmic
	reticulum which activates both store-operated and store-independent Ca(2+)-influx. Regulates

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	basal cytosolic and endoplasmic reticulum Ca(2+) concentrations. Upon mild variations of the
	endoplasmic reticulum Ca(2+) concentration, translocates from the endoplasmic reticulum to
	the plasma membrane where it probably activates the Ca(2+) release-activated Ca(2+) (CRAC)
	channels ORAI1, ORAI2 and ORAI3. May inhibit STIM1-mediated Ca(2+) influx (By similarity).
	{ECO:0000250}.
Molecular Weight:	24.5 kDa Including tag.
UniProt:	P83093
Pathways:	TCR Signaling, BCR Signaling
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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