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SIGMAR1 Protein (AA 102-223) (His tag)



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Quantity:	1 mg	
Target:	SIGMAR1	
Protein Characteristics:	AA 102-223	
Origin:	Mouse	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This SIGMAR1 protein is labelled with His tag.	
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)	
Product Details		
Sequence:	EYVLLFGTAL GSHGHSGRYW AEISDTIISG TFHQWKEGTT KSEVFYPGET VVHGPGEATA	
	LEWGPNTWMV EYGRGVIPST LFFALADTFF STQDYLTLFY TLRAYARGLR LELTTYLFGQ DS	
	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 Sigmar1 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.	
	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.
- 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

SIGMAR1

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Target:

Crystallography grade

Target Details

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Alternative Name:	Sigmar1 (SIGMAR1 Products)	
Background:	Functions in lipid transport from the endoplasmic reticulum and is involved in a wide array of	
	cellular functions probably through regulation of the biogenesis of lipid microdomains at the	
	plasma membrane. Involved in the regulation of different receptors it plays a role in BDNF	
	signaling and EGF signaling. Also regulates ion channels like the potassium channel and could	
	modulate neurotransmitter release. Plays a role in calcium signaling through modulation	

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	together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. Plays	
	a role in several other cell functions including proliferation, survival and death. Originally	
	identified for its ability to bind various psychoactive drugs it is involved in learning processes,	
	memory and mood alteration (PubMed:11149946, PubMed:14622179, PubMed:15571673,	
	PubMed:15777781, PubMed:23332758, PubMed:9425306, PubMed:9603192). Necessary for	
	proper mitochondrial axonal transport in motor neurons, in particular the retrograde movement	
	of mitochondria (PubMed:25678561). {ECO:0000269 PubMed:11149946,	
	ECO:0000269 PubMed:14622179, ECO:0000269 PubMed:15571673,	
	ECO:0000269 PubMed:15777781, ECO:0000269 PubMed:23332758,	
	ECO:0000269 PubMed:25678561, ECO:0000269 PubMed:9425306,	
	ECO:0000269 PubMed:9603192}.	
Molecular Weight:	14.7 kDa Including tag.	
UniProt:	055242	
Pathways:	SARS-CoV-2 Protein Interactome	
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)

Images

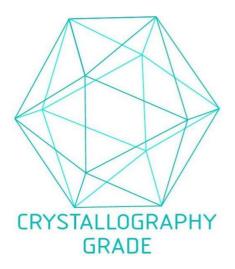


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process