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Caveolin-1 Protein (AA 2-104) (His tag)



Image



Go to Product page

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Overview			
Quantity:	1 mg		
Target:	Caveolin-1 (CAV1)		
Protein Characteristics:	AA 2-104		
Origin:	Mouse		
Source:	Escherichia coli (E. coli)		
Protein Type:	Recombinant		
Purification tag / Conjugate:	This Caveolin-1 protein is labelled with His tag.		
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)		
Product Details			
Sequence:	SGGKYVDSEG HLYTVPIREQ GNIYKPNNKA MADEVTEKQV YDAHTKEIDL VNRDPKHLND		
	DVVKIDFEDV IAEPEGTHSF DGIWKASFTT FTVTKYWFYR LLS		
	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 Cav1 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.
- 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:

Target:

Crystallography grade

Caveolin-1 (CAV1)

Target Details

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Alternative Name:	Cav1 (CAV1 Products)
Background:	Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell
	activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell
	receptor/CD3-dependent manner. May act as a scaffolding protein within caveolar membranes.
	Interacts directly with G-protein alpha subunits and can functionally regulate their activity.
	Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives

	caveolae formation. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway. Negatively regulates TGFB1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation (By similarity). {ECO:0000250 UniProtKB:Q03135, ECO:0000269 PubMed:10816572}.	
Molecular Weight:	12.8 kDa Including tag.	
UniProt:	P49817	
Pathways:	Maintenance of Protein Location, Signaling Events mediated by VEGFR1 and VEGFR2, Negative Regulation of Transporter Activity, VEGFR1 Specific Signals	
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: Handling	For Research Use only	
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