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Datasheet for ABIN3083702 MYL2 Protein (AA 2-166) (His tag)

Image



Overview

Quantity:	1 mg
Target:	MYL2
Protein Characteristics:	AA 2-166
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYL2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	APKKAKKRAG GANSNVFSMF EQTQIQEFKE AFTIMDQNRD GFIDKNDLRD TFAALGRVNV
	KNEEIDEMIK EAPGPINFTV FLTMFGEKLK GADPEETILN AFKVFDPEGK GVLKADYVRE
	MLTTQAERFS KEEVDQMFAA FPPDVTGNLD YKNLVHIITH GEEKD
	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.
	Human MYL2 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).
	State of the all algorithm used for plasmid design (defie 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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	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	
Farget:	MYL2
Alternative Name:	MYL2 (MYL2 Products)
Background:	Contractile protein that plays a role in heart development and function (By similarity). Following
-	phosphorylation, plays a role in cross-bridge cycling kinetics and cardiac muscle contraction by
	increasing myosin lever arm stiffness and promoting myosin head diffusion, as a consequence

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Target Details

	These events altogether slow down myosin kinetics and prolong duty cycle resulting in
	accumulated myosins being cooperatively recruited to actin binding sites to sustain thin
	filament activation as a means to fine-tune myofilament calcium sensitivity to force (By
	similarity). During cardiogenesis plays an early role in cardiac contractility by promoting cardiac
	myofibril assembly (By similarity). {ECO:0000250 UniProtKB:P08733,
	ECO:0000250 UniProtKB:P51667}.
Molecular Weight:	19.6 kDa Including tag.
UniProt:	P10916
UniProt: Pathways:	P10916 Myometrial Relaxation and Contraction

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:	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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