antibodies

## Datasheet for ABIN3092039 MLYCD Protein (AA 40-493) (His tag)

Image



## Overview

Quantity:	1 mg
Target:	MLYCD
Protein Characteristics:	AA 40-493
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MLYCD protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	MDELLRRAVP PTPAYELREK TPAPAEGQCA DFVSFYGGLA ETAQRAELLG RLARGFGVDH
	GQVAEQSAGV LHLRQQQREA AVLLQAEDRL RYALVPRYRG LFHHISKLDG GVRFLVQLRA
	DLLEAQALKL VEGPDVREMN GVLKGMLSEW FSSGFLNLER VTWHSPCEVL QKISEAEAVH
	PVKNWMDMKR RVGPYRRCYF FSHCSTPGEP LVVLHVALTG DISSNIQAIV KEHPPSETEE
	KNKITAAIFY SISLTQQGLQ GVELGTFLIK RVVKELQREF PHLGVFSSLS PIPGFTKWLL
	GLLNSQTKEH GRNELFTDSE CKEISEITGG PINETLKLLL SSSEWVQSEK LVRALQTPLM
	RLCAWYLYGE KHRGYALNPV ANFHLQNGAV LWRINWMADV SLRGITGSCG LMANYRYFLE
	ETGPNSTSYL GSKIIKASEQ VLSLVAQFQK NSKL
	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 MLYCD Protein (raised in Insect Cells) purified by multi-step, protein-specific process

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Product D	etails
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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 baculovirus infected SF9 insect cells:
	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:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	MLYCD
Alternative Name:	MLYCD (MLYCD Products)

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## Target Details

Background:	Catalyzes the conversion of malonyl-CoA to acetyl-CoA. In the fatty acid biosynthesis MCD	
	selectively removes malonyl-CoA and thus assures that methyl-malonyl-CoA is the only chain	
	elongating substrate for fatty acid synthase and that fatty acids with multiple methyl side	
	chains are produced. In peroxisomes it may be involved in degrading intraperoxisomal malonyl-	
	CoA, which is generated by the peroxisomal beta-oxidation of odd chain-length dicarboxylic	
	fatty acids. Plays a role in the metabolic balance between glucose and lipid oxidation in muscle	
	independent of alterations in insulin signaling. May play a role in controlling the extent of	
	ischemic injury by promoting glucose oxidation. {ECO:0000269 PubMed:10455107,	
	ECO:0000269 PubMed:15003260, ECO:0000269 PubMed:18314420,	
	ECO:0000269 PubMed:23482565}.	
Molecular Weight:	51.9 kDa Including tag.	
UniProt:	095822	
Pathways:	Regulation of Carbohydrate Metabolic Process	
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	
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)	

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

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