antibodies

Datasheet for ABIN3130015 ALDH1A3 Protein (AA 2-512) (His tag)





Overview

Quantity:	1 mg
Target:	ALDH1A3
Protein Characteristics:	AA 2-512
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH1A3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	MSGNGRELGE YALAEYTEVK TVTIKLEEKN P
	FKNLEEVIKR ANSTDYGLTA AVFTKNLDKA LKLAAALESG TVWINCYNAF YAQAPFGGFK
	FDKILELIES GKKEGAKLEC GGSAMEDRGL FIKPTVFSDV TDNMRIAKEE IFGPVQPILK
	AHQGVFFNQG QCCTAASRVF VEEQVYGEFV RRSVEFAKKR PVGDPFDAKT EQGPQIDQKQ
	AAISSHPQIN KIAFTGSTEV GKLVREAASR SNLKRVTLEL GGKNPCIVCA DADLDLAVEC
	FPLLMLAWKL APALCCGNTV VLKPAEQTPL TALYLASLIK EVGFPPGVVN IVPGFGPTVG
	TGKPFLHAFF VDLEGCIKTF RYFAGWADKI QGRTIPTDDN VVCFTRHEPI GVCGAITPWN
	EVEEGDKPDV DKAVEAAQAA FQRGSPWRRL DALSRGQLLH QLADLVERDR AILATLETMD
Sequence:	ATTNGAVENG QPDGKPPALP RPIRNLEVKF TKIFINNDWH ESKSGRKFAT YNPSTLEKIC

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Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Aldh1a3 Protein (raised in Insect Cells) 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 baculovirus infected SF9 insect cells:
	 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
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

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Target Details

Target:	ALDH1A3
Alternative Name:	
Alternative Name.	Aldh1a3 (ALDH1A3 Products)
Background:	Recognizes as substrates free retinal and cellular retinol-binding protein-bound retinal. Seems
	to be the key enzyme in the formation of an RA gradient along the dorso-ventral axis during the
	early eye development and also in the development of the olfactory system.
	{ECO:0000269 PubMed:10906479, ECO:0000269 PubMed:11013254,
	EC0:0000269 PubMed:11025231, EC0:0000269 PubMed:11044606}.
Molecular Weight:	57.0 kDa Including tag.
UniProt:	Q9JHW9
Pathways:	Retinoic Acid Receptor Signaling Pathway
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

Expiry Date: Unlimited (if stored properly)

Storage Comment:

Store at -80°C.



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

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