antibodies

Datasheet for ABIN3088534 ALDH3B1 Protein (AA 1-465) (His tag)

Image



Overview

Quantity:	1 mg
Target:	ALDH3B1
Protein Characteristics:	AA 1-465
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH3B1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MDPLGDTLRR LREAFHAGRT RPAEFRAAQL QGLGRFLQEN KQLLHDALAQ DLHKSAFESE
	VSEVAISQGE VTLALRNLRA WMKDERVPKN LATQLDSAFI RKEPFGLVLI IAPWNYPLNL
	TLVPLVGALA AGNCVVLKPS EISKNVEKIL AEVLPQYVDQ SCFAVVLGGP QETGQLLEHR
	FDYIFFTGSP RVGKIVMTAA AKHLTPVTLE LGGKNPCYVD DNCDPQTVAN RVAWFRYFNA
	GQTCVAPDYV LCSPEMQERL LPALQSTITR FYGDDPQSSP NLGRIINQKQ FQRLRALLGC
	GRVAIGGQSD ESDRYIAPTV LVDVQEMEPV MQEEIFGPIL PIVNVQSLDE AIEFINRREK
	PLALYAFSNS SQVVKRVLTQ TSSGGFCGND GFMHMTLASL PFGGVGASGM GRYHGKFSFD
	TFSHHRACLL RSPGMEKLNA LRYPPQSPRR LRMLLVAMEA QGCSC
	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 ALDH3B1 Protein (raised in Insect Cells) purified by multi-step, protein-specific

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process to ensure crystallization grade.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

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Target Details	
Background:	Oxidizes medium and long chain saturated and unsaturated aldehydes. Metabolizes also benzaldehyde. Low activity towards acetaldehyde and 3,4-dihydroxyphenylacetaldehyde. May not metabolize short chain aldehydes. May use both NADP(+) and NAD(+) as cofactors. May have a protective role against the cytotoxicity induced by lipid peroxidation. {ECO:0000269 PubMed:17382292, ECO:0000269 PubMed:23721920}.
Molecular Weight:	52.5 kDa Including tag.
UniProt:	P43353
Pathways:	Monocarboxylic Acid Catabolic 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 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)

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

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