Datasheet for ABIN7551968

ALDH9A1 Protein (AA 1-494) (His tag)

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Overview

Quantity:	1 mg
Target:	ALDH9A1
Protein Characteristics:	AA 1-494
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH9A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ALDH9A1 Protein expressed in mammalian cells.
Sequence:	MSTGTFVVSQ PLNYRGGARV EPADASGTEK AFEPATGRVI ATFTCSGEKE VNLAVQNAKA AFKIWSQKSG MERCRILLEA ARIIREREDE IATMECINNG KSIFEARLDI DISWQCLEYY AGLAASMAGE HIQLPGGSFG YTRREPLGVC VGIGAWNYPF QIASWKSAPA LACGNAMVFK PSPFTPVSAL LLAEIYSEAG VPPGLFNVVQ GGAATGQFLC QHPDVAKVSF TGSVPTGMKI MEMSAKGIKP VTLELGGKSP LIIFSDCDMN NAVKGALMAN FLTQGQVCCN GTRVFVQKEI LDKFTEEVVK QTQRIKIGDP LLEDTRMGPL INRPHLERVL GFVKVAKEQG AKVLCGGDIY VPEDPKLKDG YYMRPCVLTN CRDDMTCVKE EIFGPVMSIL SFDTEAEVLE RANDTTFGLA AGVFTRDIQR AHRVVAELQA GTCFINNYNV SPVELPFGGY KKSGFGRENG RVTIEYYSQL KTVCVEMGDV ESAF **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ALDH9A1
Alternative Name:	ALDH9A1 (ALDH9A1 Products)
Background:	4-trimethylaminobutyraldehyde dehydrogenase (TMABA-DH) (TMABALDH) (EC 1.2.1.47) (Aldehyde dehydrogenase E3 isozyme) (Aldehyde dehydrogenase family 9 member A1) (EC 1.2.1.3) (Formaldehyde dehydrogenase) (EC 1.2.1.46) (Gamma-aminobutyraldehyde dehydrogenase) (EC 1.2.1.19) (R-aminobutyraldehyde dehydrogenase) [Cleaved into: 4-trimethylaminobutyraldehyde dehydrogenase, N-terminally processed],FUNCTION: Converts gamma-trimethylaminobutyraldehyde into gamma-butyrobetaine with high efficiency (in vitro). Can catalyze the irreversible oxidation of a broad range of aldehydes to the corresponding acids in an NAD-dependent reaction, but with low efficiency. Catalyzes the oxidation of aldehydes arising from biogenic amines and polyamines. {ECO:0000269|PubMed:10702312, ECO:0000269|PubMed:1799975, ECO:0000269|PubMed:30914451, ECO:0000269|PubMed:8645224}.
Molecular Weight:	53.8 kDa

Target Details

UniProt:	P49189

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months