abcam

Product datasheet

Recombinant human ALDH2 protein ab167991

1 Image

Description

Product name	Recombinant human ALDH2 protein
Biological activity	Specific activity is ≥ 10 mU/mg, and was obtained by measuring the increase of NADP in absorbance at 340 nm resulting from the reduction of NAD. One unit will oxidize 1.0 µmole of acetaldehyde to acetic acid per minute at pH 8.0 at 25°C in the presence of beta-NAD, potassium and thiols.
Purity	> 90 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	P05091
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSAAATQAVP APNQQPEVFC NQIFINNEWH DAVSRKTFPT VNPSTGEVIC QVAEGDKEDV DKAVKAARAA FQLGSPWRRM DASHRGRLLN RLADLIERDR TYLAALETLD NGKPYVISYL VDLDMVLKCL RYYAGWADKY HGKTIPIDGD FFSYTRHEPV GVCGQIIPWN FPLLMQAWKL GPALATGNVV VMKVAEQTPL TALYVANLIK EAGFPPGVVN IVPGFGPTAG AAIASHEDVD KVAFTGSTEI GRVIQVAAGS SNLKRVTLEL GGKSPNIIMS DADMDWAVEQ AHFALFFNQG QCCCAGSRTF VQEDIYDEFV ERSVARAKSR VVGNPFDSKT EQGPQVDETQ FKKILGYINT GKQEGAKLLC GGGIAADRGY FIQPTVFGDV QDGMTIAKEE IFGPVMQILK FKTIEEVVGR ANNSTYGLAA AVFTKDLDKA NYLSQALQAG TVWVNCYDVF GAQSPFGGYK MSGSGRELGE YGLQAYTEVK TVTVKVPQKN S
Predicted molecular weight	55 kDa
Amino acids	18 to 517

Specifications

Our **Abpromise guarantee** covers the use of **ab167991** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	This product is manufactured by BioVision, an Abcam company and was previously called 6332 Human Recombinant ALDH2. 6332-100 is the same size as the 100 µg size of ab167991.

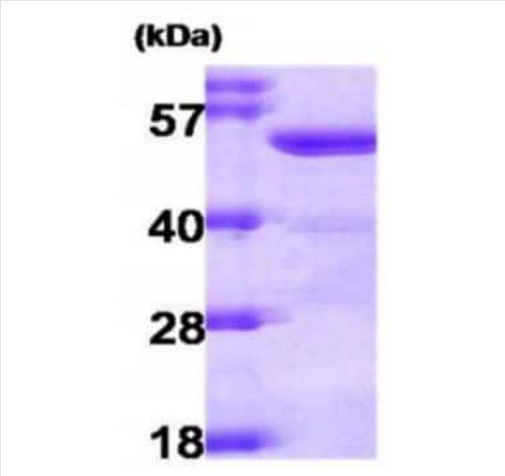
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.02% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.32% Tris HCl, 0.03% EDTA, 10% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Pathway	Alcohol metabolism; ethanol degradation; acetate from ethanol: step 2/2.
Sequence similarities	Belongs to the aldehyde dehydrogenase family.
Cellular localization	Mitochondrion matrix.

Images



SDS-PAGE - Recombinant human ALDH2 protein (ab167991)

15% SDS-PAGE analysis of ab167991 (3 µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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