

Product information



Aldehyde dehydrogenase 1A1, 1-501 aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP0405

Synonyms: Retinal dehydrogenase 1, RALDH1, ALDC, ALDH-E1, ALDH1, ALDH11, PUMB1, RALDH1

NCBI Accession No.: NP_000680

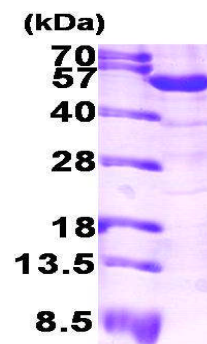
Description: Aldehyde dehydrogenase 1A1 (ALDH1A1), also known as retinal dehydrogenase 1, is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. ALDH1A1 also belongs to the group of corneal crystallins that help maintain the transparency of the cornea. (Retinal + NAD⁺ + H₂O = retinoate + NADH) Recombinant ALDH1A1 protein was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 50mM Tris-HCl buffer (pH7.5) containing 10% glycerol

Molecular Weight: 54.8 kDa (501aa)

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MSSSGTPDLP VLLTDLKIY TKIFINNEWH DSVSGKKFPV FNPATEEEELC QVEEGDKEDV DKAVKAARQA FQIGSPWRTM DASERGRLLY
KLADLIERDR LLLATMESMN GGKLYSNAYL NDLAGCIKTL RYCAGWADKI QGRTIPIDGN FFTYTRHEPI GVCQIIPWN FPLVMLIWKI
GPALSCGNTV VVKPAEQTPL TALHVASLIK EAGFPPGVVN IVPGYGPTAG AAISSHMDID KVAFTGSTEV GKLIKEAAGK SNLKRVTLEL
GGKSPCIVLA DADLDNAVEF AHHG VFYHQG QCCIAASRIF VEESIYDEFV RRSVERAKKY ILGNPLTPGV TQGPQIDKEQ YDKILD LIES
GKKEGAKLEC GGGPWGNKGY FVQPTVFSNV TDEMRIAEE IFGPVQQIMK FKSLDDVIKR ANNTFYGLSA GVFTKDIDKA ITISSALQAG
TVWVNCYGVV SAQC PFGGFK MSGNGRELGE YGFHEYTEVK TVTVKISQKN S

General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Pereira F., *et al.* (1991) *Biochem Biophys Res Commun.* 175(3):831–8.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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