

ALDH1A1 Human

Description: The ALDH1A1 Human recombinant protein is a single, non-glycosylated polypeptide chain produced in E. coli, having a molecular weight of 54.8kDa and containing 501 amino acids (1-501 a.a.).

Catalog #: ENPS-460

For research use only.

Synonyms: ALDC, Aldehyde dehydrogenase cytosolic, Aldehyde dehydrogenase family 1 member A1, ALDH1, ALDH11, ALDH-E1, ALHDII, MGC2318, PUMB1, RaLDH1, RALDH1, RALDH 1, Retinal dehydrogenase 1, ALDH1A1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MSSSGTPDLP VLLTDLKIY TKIFINNEWH DSVSGKKFPV
FNPATEEEELC QVEEGDKEDV DKAVKAARQA FQIGSPWRTM DASERGRLLYKLADLIERDR
LLLATMESMN GGKLYSNAYL NDLAGCIKTL RYCAGWADKI QGRTIPIDGN FFTYTRHEPI
GVCGQIIPWN FPLVMLIWKIGPALSCGNTV VVKPAEQTPL TALHVASLIK EAGFPPGVVN
IVPGYGPTAG AAIS

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The ALDH1A1 protein solution is formulated in 50mM Tris-HCl pH-7.5 and 10% glycerol.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

ALDH1A1 is part of the aldehyde dehydrogenases family. Aldehyde dehydrogenase is the 2nd protein of the main oxidative pathway of alcohol metabolism. Cytosolic and mitochondrial are 2 main liver isoforms of ALDH that are differentiated by their electrophoretic mobility, kinetic property, & subcellular localization. The majority of Caucasians have two main isozymes, whereas just about 50% of Orientals have only the cytosolic form, excluding the mitochondrial form.

ALDH1A1 is also a member of the group of corneal crystallins that assist the transparency of the cornea. (Retinal + NAD⁺ + H₂O = retinoate + NADH).

Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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