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ALDH1A1 Human

Catalog #:ENPS-460

For research use only.

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

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 VLLTDLKIQY TKIFINNEWH DSVSGKKFPV FNPATEEELC 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 drµgs, 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 differentiateed 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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