
Product Data Sheet

Product Name: ALDH1A1 Human

Cat. No.: GP21385

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MSSSGTPDLP VLLTDLKIY TKIFINNEWH DSVSGKKFPV FNPATEEELC QVEEGDKEDV DKAVKAARQA FQIGSPWRM DASERGRLLYKLADLIERDR LLLATMESMN G GKLYSNAYL NDLAGCIKTL RYCAGWADKI QGRTIPIDGN FFT YTRHEPI GVCQG IIPWN FPLVMLIWKIGPALSCGNTV VVKPAEQTPL TALHVASLIK EAGFPPGVVN IVPGYGPTAG AAISSHMDID KVAFTGSTEV GKLIKEAAGK SNLKRVTLEL G GKSPCIVLA DADLDNAVEF AHHG VFYHQG QCCIAASRIF VEESYDEFV RRSVERAKKY ILGNPLTPGV TQGPQIDKEQ YDKILD LIES GKKEGAKLEC GGGPWGNKGY FVQPTVFSNV TDEMRIAKEE IFGPVQQIMK FKSLDDVIKR ANNTFYGLSA GVFTKDIDKA ITISSALQAG TVWVNCYGVV SAQCPFGGFK MSGNGRELGE YGFHEYTEVK TVTVKISQKN S.		
Formulation	The ALDH1A1 protein solution is formulated in 50mM Tris-HCl pH-7.5 and 10% glycerol.		

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).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Stability

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.

Background

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.).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA