



Recombinant Human Aldehyde dehydrogenase family 8 member A1 (ALDH8A1)

Product Code	CSB-EP884448HU-B
Abbreviation	ALDH8A1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9H2A2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MAGTNALLML ENFIDGKFLP CSSYIDSYDP STGEVYCRVP NSGKDEIEAA VKAAREAFPS WSSRSPQERS RVLNQVADLL EQSLEEFAQA ESKDQGKTLA LARTMDIPRS VQNFRRFFASS SLHHTSECTQ MDHLGCMHYT VRAPVGVAGL ISPWNLPLYL LTWKIAPAMA AGNTVIKPS ELTSTAWML CKLLDKAGVP PGVVNIVFGT GPRVGEALVS HPEVPLISFT GSQPTAERIT QLSAPHCKKL SLELGGKNPA IIFEDANLDE CIPATVRSSF ANQGEICLCT SRIFVQKSIY SEFLKRFVEA TRKWVKGIPS DPLVSIKALI SKAHLEKVRS YVKRALAEGA QIWCGEVVDK LSLPARNQAG YFMLPTVITD IKDESCCMTE EIFGPVTCVV PFDSEEEVIE RANNV KYGLA ATVWSSNVGR VHRVAKKLQS GLVWTNCWLI RELNL PFGGM KSSGIGREGA KDSYDFFTEI KTITVKH
Source	E.coli
Target Names	ALDH8A1
Protein Names	Recommended name: Aldehyde dehydrogenase family 8 member A1 EC=1.2.1.- Alternative name(s): Aldehyde dehydrogenase 12
Expression Region	1-487
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein belongs to the aldehyde dehydrogenases family of proteins. It plays a role in a pathway of 9-cis-retinoic acid biosynthesis in vivo. This enzyme converts 9-cis-retinal into the retinoid X receptor ligand 9-cis-retinoic acid, and has approximately 40-fold higher activity with 9-cis-retinal than with all-trans-retinal. Therefore, it is the first known aldehyde dehydrogenase to show a preference for 9-cis-retinal relative to all-trans-retinal. Two transcript variants encoding distinct isoforms have been identified for this gene.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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