Recombinant Mouse Aldehyde dehydrogenase, dimeric NADP-preferring (Aldh3a1)

Product Code	CSB-EP001572MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P47739
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	SNISSIVNR ARDAFNSGKT RPLQFRVEQL EALQRMINEN LKGISKALAS NLRKNEWTSY YEEVAHVLDE IDFTIKGLSD WAEDEPVAKT RQTQEDDLYI HSEPLGVVLV IGAWNYPFNL TIQPMVGAIA AGNAVVLKPS EVSDHMADLL STLIPQYMDK DLYPVIKGGV PETTELLKEK FDHIMYTGST AVGKIVMAAA AKHLTPVTLE LGGKSPCYVD KDCDLDVACR RIAWGKFMNS GQTCVAPDYI LCDPSIQNEI VEKLKKSLKD FYGEDAKQSH DYGRIINDRH FQRVINLIDS KKVAHGGTWD QPSRYIAPTI LVDVDPQSPV MQEEIFGPVM PIVCVRSLDE AIKFINQREK PLALYVFSNN DKVIKKMIAE TSSGGVTAND VIVHITVPTL PFGGVGNSGM GAYHGKKSFE TFSHRRSCLV RSLRNEEANK ARYPPSPAKM PRH
Source	E.coli
Target Names	Aldh3a1
Protein Names	Recommended name: Aldehyde dehydrogenase, dimeric NADP-preferring EC= 1.2.1.5 Alternative name(s): Aldehyde dehydrogenase 4 Aldehyde dehydrogenase family 3 member A1 Dioxin-inducible aldehyde dehydrogenase 3
Expression Region	2-453
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 of Mature Protein
Target Details	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified.

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	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.