



# Recombinant Human 4-trimethylaminobutyraldehyde dehydrogenase (ALDH9A1)

<b>Product Code</b>	CSB-EP001582HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P49189
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	STGTFVVSQPLNYRGGARVEPADASGTEKAFEPATGRVIATFTCSGEKEVNLA VQNAKAFAFKIWSQKSGMERCILLEAARIIREREDEIATMECINNGKSIFEARLDI DISWQCLEYAGLAASMAGEHIQLPGGSFYTRREPLGVCVGIGAWNYPFQIA SWKSAPALACGNAMVFKPSPFTPVSALLLAEIYSEAGVPPGLFNVVQGGAAATG QFLCQHPDVAKVSFTGVSPTGMKIMEMSAKGIKPVTLELGGKSPLIIFSDCDMN NAVKGALMANFLTQGGVCCNGTRVVFVQKEILDKFTEEVVKQTQRIKIGDPLLE DTRMGPLINRPHLERVLGFVKVAKEQGAKVLCGGDIYVPEDPKLKDGYMMP CVLTNCRDDMTCVKEEIFGPVMSILSFDTEAEVLERANDTTFGLAAGVFTRDIQ RAHRVVAELQAGTCFINNYNVSPVELPFGGYKKSGFGRENGRVTIEYYSQKLT VCVEMGDVESAF
<b>Source</b>	E.coli
<b>Target Names</b>	ALDH9A1
<b>Protein Names</b>	Recommended name: 4-trimethylaminobutyraldehyde dehydrogenase Short name= TMABADH EC= 1.2.1.47Alternative name(s): Aldehyde dehydrogenase E3 isozyme Aldehyde dehydrogenase family 9 member A1 EC= 1.2.1.3 Gamma-aminobut
<b>Expression Region</b>	2-494
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits.
<b>Reconstitution</b>	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.

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### 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.