



# Recombinant Human 4-trimethylaminobutyraldehyde dehydrogenase (ALDH9A1)

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| <b>Product Code</b>      | CSB-EP001582HU  |
| <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<br>VQNAKAAFKIWSQKSGMERCILLEAARIIREREDEIATMECINNGKSIFEARLDI<br>DISWQCLEYAGLAASMAGEHIQLPGGSFGYTRREPLGVCVIGAWNYPFQIA<br>SWKSAPALACGNAMVFKPSPFTPVSALLAEIYSEAGVPPGLFNVVQGGAAATG<br>QFLCQHPDVAKVSFTGVSPTGMKIMEMSAKGIKPVTLELGGKSPLIIFSDCDMN<br>NAVKGALMANFLTQGGVCCNGTRVVFVQKEILDKFTEEVVKQTQRIKIGDPLLE<br>DTRMGPLINRPHLERVLGFVKVAKEQGAKVLCGGDIYVPEDPKLKDGYMYP<br>CVLTNCRDDMTCVKEEFGPVMSILSFDTEAEVLERANDTTFGLAAGVFTRDIQ<br>RAHRVVAELQAGTCFINNYNVSPVELPFGGYKKSGFGRENGRVTIEYYSQKLT<br>VCVEMGDVESAF |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | ALDH9A1   |
| <b>Protein Names</b>     | Recommended name: 4-trimethylaminobutyraldehyde dehydrogenase Short name= TMABADH EC= 1.2.1.47 Alternative 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.