



# Recombinant Mouse Alcohol dehydrogenase class-3 (Adh5)

<b>Product Code</b>	CSB-EP001357MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P28474
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	ANQVIRCKA AVAWEAGKPL SIEEIEVAPP KAHEVRIKIL ATAVCHTDAY TLSGADPEGC FPVILGHEGA GIVESVGEGV TKLKAGDTVI PLYIPQCGEC KFCLNPKTNL CQKIRVTQGG GLMPDGTSRF TCKGKSVFHF MGTSTFSEYT VVADISVAKI DPSAPLDKVC LLGCGISTGY GAAVNTAKVE PGSTCAVFG GGVGLAVIMG CKVAGASRII GIDINKDKFA KAKEFGASEC ISPQDFSKSI QEVLVEMTDG GVDYSFECIG NVKVMRSALE AAHKGWGVSV VVGVAASGEE ISTRPFQLVT GRTWKGTAFG GWKSVESVPK LVSEYMSKKI KVDEFVTGNL SFDQINQAFD LMHSGDSIRT VLKM
<b>Source</b>	E.coli
<b>Target Names</b>	Adh5
<b>Protein Names</b>	Recommended name: Alcohol dehydrogenase class-3 EC= 1.1.1.1 Alternative name(s): Alcohol dehydrogenase 2 Alcohol dehydrogenase 5 Alcohol dehydrogenase B2 Short name= ADH-B2 Alcohol dehydrogenase class-III Glutathione-
<b>Expression Region</b>	2-374
<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 gene encodes a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. The encoded protein forms a homodimer. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis. The human genome contains several non-transcribed pseudogenes related to this gene.
<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.

### 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.