



# Recombinant Rat Retinal dehydrogenase 2 (Aldh1a2)

<b>Product Code</b>	CSB-MP714348RA
<b>Abbreviation</b>	Aldh1a2
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q63639
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MTSSEIAMPG EVKADPAALM ASLQLLPSPT PNLEIKYTKI FINNEWQNSE SGRVFPVCPNP ATGEQVCEVQ EADKVDIDKA VQAARLAFSL GSVWRRMDAS ERGRLLDKLA DLVERDRATL ATMESLNGGK PFLQAFYIDL QGVIKTLRYY AGWADKIHGM TIPVDGDYFT FTRHEPIGVC GQIIPWNFPL LMFTWKIAPA LCCGNTVVIK PAEQTPLSAL YMGALIKEAG FPPGVVNILP GYGPTAGAAI ASHIGIDKIA FTGSTEVGKL IQEAAGRSNL KRVTLELGGK SPNIIFADAD LDYAVEQAHQ GVFFNQGCC TAGSRIFVEE SIYEEFVKRS VERAKRRIVG SPFDPTTEQG PQIDKKQYNK ILELIQSGVA EGAKLECGGK GLGRKGFIE PTVFSNVTDD MRIAKEEIFG PVQEILRFKT MDEVIERANN SDFGLVAAVF TNDINKALMV SSAMQAGTVW INCYNALNAQ SPFGGFKMSG NGREMGEFGL REYSEVKTVT VKIPQKNS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Aldh1a2
<b>Protein Names</b>	Recommended name: Retinal dehydrogenase 2 Short name= RALDH 2 Short name= RaLDH2 EC= 1.2.1.36 Alternative name(s): Aldehyde dehydrogenase family 1 member A2 Retinaldehyde-specific dehydrogenase type 2 Short name= RA
<b>Expression Region</b>	1-518
<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 protein
<b>Target Details</b>	This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the



cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Three transcript variants encoding distinct isoforms have been identified for this gene.

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**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.

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**Shelf Life**

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