



# Recombinant Human Aconitate hydratase, mitochondrial (ACO2)

<b>Product Code</b>	CSB-EP859943HU-B
<b>Abbreviation</b>	ACO2
<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>	Q99798
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	QRA KVAMSHFEPN EYIHYDLLEK NINIVRKRLN RPLTLSEKIV YGHLD PASQ EIERGKSYLR LRPDRVAMQD ATAQMAMLQF ISSGLSKVAV PSTIHCDHLI EAQVGGEKDL RRAKDINQEV YNFLATAGAK YGVGFWKPGS GIIHQIILEN YAYPGVLLIG TDSHTPNGGG LGGICIGVGG ADAVDVMAGI PWELKCPKVI GVKLTGSLSG WSSPKDVILK VAGILTVKGG TGAIVEYHGP GVDSISCTGM ATICNMGAEI GATTSVFPYN HRMKKYSKT GREDIANLAD EFKDHLVPDP GCHYDQLIEI NLSELKPHIN GPFTPDLAHP VAEVGKVAEK EGWPLDIRVG LIGSCTNSSY EDMGRSAAVA KQALAHGLKC KSQFTITPGS EQIRATIERD GYAQILRDLG GIVLANACGP CIGQWDRKDI KKGEKNTIVT SYNRNFTGRN DANPETHAFV TSPEIVTALA IAGTLKFNPE TDYLTGTDGK KFRLEAPDAD ELPKGEFDPG QDQYQHPPKD SSGQHVDVSP TSQRLQLLEP FDKWDGKDL DLQILIKVKG KCTTDHISAA GPWLKFRGHL DNISNLLIG AINIENKAN SVRNAVTQEF GPVPDTARYY KKHGIRWVVI GDENYGEKSS REHAALPRH LGGRAITKS FARIHETNLK KQGLLPLTFA DPADYNKIHP VDKLTIQGLK DFTPGKPLKC IIKHPNGTQE TILLNHTFNE TQIEWFRAGS ALNRMKELQQ
<b>Source</b>	E.coli
<b>Target Names</b>	ACO2
<b>Protein Names</b>	Recommended name: Aconitate hydratase, mitochondrial Short name= Aconitase EC= 4.2.1.3 Alternative name(s): Citrate hydro-lyase
<b>Expression Region</b>	28-780
<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 aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the



second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification.

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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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