

ACO1 recombinant protein

ACO1, 1-889aa, Human, His tag, E Coli

CATALOG # AAA11797	HOST E Coli	APPLICATIONS SDS-Page
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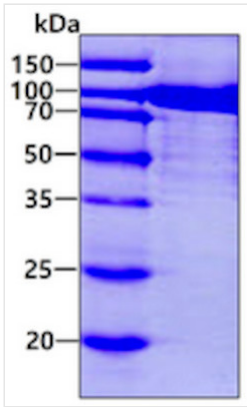
PRODUCT SYNONYMS

ACO1; 1-889aa; Human; His tag; E Coli; Cytoplasmic aconitate hydratase; ACONS; IREB1; IREBP; IREBP1; IRP1; ACO1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSNPFAH LAEPLDPVQP GKFFNLNKL EDSRYGRLPF SIRVLLEAAI RNCDEFLVKK QDIENILHWN VTQHKNIEVP FKPARVILQD FTGVPVAVDF AAMRDAVKKL GGDPEKINPV CPADLVIDHS IQVDFNRRAD SLQKNQDLEF ERNRERFEFL KWGSQAFHNM RIIPPGSGII HQVNLEYLAR VVFDQDGYYY PDSLVGTDSH TTMIDGLGIL GWGVGGIEAE AVMLGQPISM VLPQVIGYRL MGKPHPLVTS TDIVLTITKH LRQGVVGKF VEFFGPGVAQ LSIADRATIA NMCPEYGATA AFFPVDEVSI TYLVQTGRDE EKLKYIKKYL QAVGMFRDFN DPSQDPDTQ VVELDLKTVV PCCSGPKRPQ DKVAVSDMKK DFESCLGAKQ GFKGFQVAPE HHNDHKTFIY DNTEFTLAHG SVVIAAITSC TNSNPSVML GAGLLAKKAV DAGLNVMPYI KTSLSPGSGV VTYYLQESGV MPYLSQLGFD VVGYGCMTCI GNSGPLPEPV VEAITQGDV AVGVLSGNNR FEGRVHPNTR ANYLASPLV IAYAIAGTIR IDFEKEPLGV NAKGQQVFLK DIWPTRDEIQ AVERQYVIPG MFKEVYQKIE TVNESWNALA TPSDKLFFWN SKSTYIKSPP FFENLTLDLQ PPKSIVDAYV LLNLGDSVTT DHISPAGNIA RNSPAARYLT NRGLTPREFN SYGSRRGNDA VMARGTFANI RLLNRFLNKQ APQTIHLPSG EILDVFDAAE RYQQAGLPLI VLAGKEYGAG SSRDWAAKGP FLLGIKAVLA ESYERIHRN LVGMGVIPLE YLPGENADAL GLTGQERYTI IIPENLKPQM KVQVKLDTGK TFQAVMRFDT DVELTYFLNG GILNYMIRKM AK
Sequence Length	889
Applicable Applications for ACO1 recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	1-889aa
Preparation and Storage	Can be stored at 2-8°C (1 week). For long term storage, aliquot and store at -20° C or -80° C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for ACO1 recombinant protein	ACO1 (aconitate hydratase) plays a role as an iron sensor. This enzyme catalyzes the stereo-specific isomerization of citrate to isocitrate via cis-aconitate in the tricarboxylic acid cycle, a non-redox-active process. Recombinant human ACO1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for ACO1 recombinant protein	Metabolism
References	Vashisht A.A., et al (2009) Science 326:718-721; Salahudeen A.A., et al (2009) Science 326:722-726;

NCBI AND UNIPROT INFORMATION

NCBI GI #	8659555
NCBI GeneID	48
NCBI Accession #	NP_002188
NCBI GenBank Nucleotide #	NM_002197.2
UniProt Accession #	P21399; Q14652; Q5VZA7; D3DRK7
Molecular Weight	100.8kDa (912aa)
NCBI Official Full Name	cytoplasmic aconitate hydratase
NCBI Official Synonym Full Names	aconitase 1
NCBI Official Symbol	ACO1
NCBI Official Synonym Symbols	IRP1; ACONS; HEL60; IREB1; IREBP; IREBP1
NCBI Protein Information	cytoplasmic aconitate hydratase
UniProt Protein Name	Cytoplasmic aconitate hydratase
UniProt Gene Name	ACO1
UniProt Synonym Gene Names	IREB1; Aconitase; IRP1; IRE-BP 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.