

Product information



ACO1, 1-889aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0871

Full name: Cytoplasmic aconitate hydratase

NCBI Accession No.: NP_002188

Synonyms: ACONS, IREB1, IREBP, IREBP1, IRP1

Description: 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.

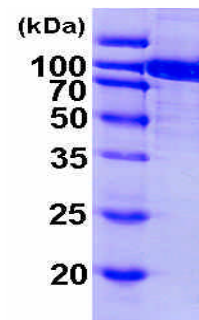
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol,

2mM DTT, 100mM NaCl

Molecular Weight: 100.8kDa (912aa)

Purity: > 90% by SDS - PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMSNPFAH LAEPLDPVQP GKKFFNLNKL EDSRYGRLPF SIRVLEAAI RNCDEFLVKK QDIENILHWN
VTQHKNI EVP FKPARVILQD FTGVPVAVDF AAMRDVKKL GGDPEKINPV CPADLVIDHS IQVDFNRRAD SLQKNQDLEF ERNRERFEFL
KWGSQAFHNM RIIPPGSGII HQVNLEYLAR VVFDQDGYYY PDSLVTGDSH TTMIDGLGIL GWGVGGIEAE AVMLGQPI SM VLPQVIGYRL
MGKPHPLVTS TDIVLTI TKH LRQVGVVGKF VEFFGPGVAQ LSIADRATIA NMCPEYGATA AFFPVDEVS I TYLVQTGRDE EKLKYIKKYL
QAVGMFRDFN DPSQDPDFTQ VVELDLKTVV PCCSGPKRPQ DKVAVSDMKK DFESCLGAKQ GFKGFQVAPE HHNDHKTFIY DNTEFTLAHG
SVVIAAITSC TNSNPSVML GAGLLAKKAV DAGLNVMPYI KTSLSPGSGV VTYYLQESGV MPYLSQLGFD VVGYGCMTCI GNSGPLPEPV
VEAITQGDLV AVGVLSGNRN FEGRVHPNTR ANYLASPLV IAYAIAGTIR IDFEKEPLGV NAKGQVFLK DIWPTRDEIQ AVERQYVIPG
MFKEVYQKIE TVNESWNALA TPSDKLFFWN SKSTYIKSPP FFENLTLDLQ PPKSIVDAYV LLNLGDSVTT DHISPAGNIA RNSPAARYLT
NRGLTPREFN SYGSRRGNDA VMARGTFANI RLLNRFNLKQ APQTIHLPSG EILDVFDAAE RYQQAGLPLI VLAGKEYGAG SSRDWAAKGP
FLLGIKAVLA ESYERIHRSN LVGMGVIPLE YLPGENADAL GLTGQERYTI IIPENLKPQM KVQVKLDTGK TFQAVMRFDI DVELTYFLNG
GILNYMIRKM AK

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: +1 (763) - 780-2955 Fax.: +1 (763) - 780-2988
Email: ibl@ibl-america.com Web: www.ibl-america.com

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General references:

Vashisht A.A., *et al* (2009) *Science* 326:718-721

Salahudeen A.A., *et al* (2009) *Science* 326:722-726

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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