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32-2109: ACO1 Recombinant Protein

Alternative Name : Onitase 1 Soluble,IRP1,IREB1,IREBP,Citrate hydro-lyase,Iron regulatory protein 1,Ferritin repressor protein,Iron-responsive element-binding protein 1,ACONS,Aconitate Hydratase,EC 4.2.1.3,Aconitase.

Description

Source : Escherichia Coli. ACO1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 912 amino acids (1-889a.a.) and having a molecular mass of 100.8kDa.ACO1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. ACO1 has a part in an iron sensor. ACO1 catalyzes the stereo-specific isomerization of citrate to isocitrate via cis-aconitate in the tricarboxylic acid cycle, a non-redox-active process.

Product Info

Amount : 5 µg

Purification : Greater than 90% as determined by SDS-PAGE.

Content : The ACO1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0)2mM DTT, 100mM NaCl and 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please avoid freeze thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMSNPFAH LAEPLDPVQP GKKFFNLNKL EDSRYGRLPF SIRVLLEAAI RNCDEFLVKK QDIENILHWN VTQHKNIEVP FKPARVILQD FTGVPAVVDF AAMRDAVKKL GGDPEKINPV CPADLVIDHS IQVDFNRRAD SLQKNQDLEF ERNRERFEFL KWGSQAFHNM RIIPPGSGII HQVNLEYLAR VVFDQDGYYY PDSLVGTDSH TTMIDGLGIL GWGVGGIEAE AVMLGQPISM VLPQVIGYRL MGKPHPLVTS TDIVLTITKH LRQVGVVGKF VEFFGPGVAQ LSIADRATIA NMCPEYGATA AFFPVDEVSI TYLVQTGRDE EKLKYIKKYL QAVGMFRDFN DPSQDPDFTQ VVELDLKTVV PCCSGPKRPQ DKVAVSDMKK DFESCLGAKQ GFKGFQVAPE HHNDHKTFIY DNTEFTLAHG SVVIAAITSC TNTSNPSVML GAGLLAKKAV DAGLNVMPYI KTSLSPGSGV VTYYLQESGV MPYLSQLGFD VVGYGCMTCI GNSGPLPEPV VEAITQGDLV AVGVLSGNRN FEGRVHPNTR ANYLASPPLV IAYAIAGTIR IDFEKEPLGV NAKGQQVFLK DIWPTRDEIQ AVERQYVIPG MFKEVYQKIE TVNESWNALA TPSDKLFFWN SKSTYIKSPP FFENLTLDLQ PPKSIVDAYV LLNLGDSVTT DHISPAGNIA RNSPAARYLT NRGLTPREFN SYGSRRGNDA VMARGTFANI RLLNRFLNKQ APQTIHLPSG EILDVFDAAE RYQQAGLPLI VLAGKEYGAG SSRDWAAKGP FLLGIKAVLA ESYERIHRSN LVGMGVIPLE YLPGENADAL GLTGQERYTI IIPENLKPQM KVQVKLDTGK TFQAVMRFDT DVELTYFLNG GILNYMIRKM AK