

Product Data Sheet

Product Name: ACO1 Human
 Cat. No.: GP21336
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMSNPF AH LAEPLDPVQP GKKFFNLNKL EDSRYGRLPF SIRVLEAAI RNCDEFLVKK QDIENILHWN VTQHKNIEVP FKPARVILQD FTGVPVVDF 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 KTSLSPPGSGV VTYYLQESGV MPYLSQLGFD VVGYGCMTCI GNSGPLPEPV VEAITQGD LV AVGVLSGNRN 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 ESYERIHRSN LVGMGVIPLE YLPGENADAL GLTGQERYTI IIPENLKPQM KVQVKLDTGK TFQAVMRFD T DVELTYFLNG GILNYMIRKM AK</p>		
Formulation	The ACO1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 2mM DTT, 100mM NaCl and 10% glycerol.		

Introduction

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Stability

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.

Background

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.

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