

Aconitase-1 Human Recombinant

Item Number	rAP-1370
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.
Description	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.
Uniprot Accession Number	P21399
Amino Acid Sequence	MGSSHHHHH SSSLVPRGSH MGSMNPFAH LAEPLDPVQP GKKFFNLNKL EDSRYGRLPF SIRVLE- AAI RNCDEFLVKK QDIENILHWN VTQHKNIEVP FKPARVILQD FTGVPVVDF AAMRDAVKKL GGDPE- KINPV CPADLVIDHS IQVDFNRRAD SLQKNQDLEF ERNRERFEFL KWGSQAFHNM RIIPPGSGII HQVNLEYLAR VVFDQDGYYY PDSLVTGDSH TTMDGLGIL GWGVGGIEAE AVMLGQPISM VLPQVIGYRL MGKPHPLVTS TDIVLTITKH LRQVGVVGKF VEFFGPGVAQ LSIADRATIA NMCPEYGATA AFFPVDEVSI TYLVQTGRDE EKLKYIKKYL QAVGMFRDFN DPSQDPDFTQ VVELDLKTVV PCCSGPKRPQ DKVAVSDMKK DFESCLGAKQ GFKGFQVAPE HHNDHKTFIY DNTEFTLAHG SVVI- AAITSC TNTSNPSVML GAGLLAKKAV DAGLNVMPYI KTSLSPPSGV VTYYLQESGV MPYLSQLGFD
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered clear solution. 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.
Formulation and Purity	The ACO1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0)2mM DTT, 100mM NaCl and 10% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**