

Product datasheet

Recombinant Human COASY protein ab211940

Description

Product name	Recombinant Human COASY protein	
Purity	> 90 % SDS-PAGE. This protein was expressed in E. coli as inclusion bodies, refolded using unique “temperature shift inclusion body refolding” technology and chromatographically purified.	
Expression system	Escherichia coli	
Accession	Q13057	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MASMTGGQQMGRGEFMAINRFRENDLEELALYQIQLLKD LRHTENEEDK VSSSSFRQRMLGNLLRPPYERPELPTCLYIGLTGISGSGK SSIAQRLKG LGAFVIDSDHLGHRAYAPGGPAYQPVVEAFGTDILHKDGI NRKVLGSRV FGNNKQLKILTDIMWPIIAKLAREEMDRAVAEGKRVCVIDA AVLLEAGWQ NLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRLQSQMS GQQLVEQSHV VLSTLWEPHITQRQVEKAWALLQKRIPKTHQALD	
Predicted molecular weight	32 kDa including tags	
Amino acids	296 to 564	
Tags	T7 tag N-Terminus	
Additional sequence information	Constructed with 15 N-terminal T7 tag.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab211940** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -80°C. pH: 8.00 Constituent: 0.32% Tris HCl Contains NaCl, KCl, EDTA, Sucrose and DTT.
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General Info

Function	Bifunctional enzyme that catalyzes the fourth and fifth sequential steps of CoA biosynthetic pathway. The fourth reaction is catalyzed by the phosphopantetheine adenylyltransferase, coded by the coaD domain; the fifth reaction is catalyzed by the dephospho-CoA kinase, coded by the coaE domain. May act as a point of CoA biosynthesis regulation.
Tissue specificity	Expressed in all tissues examined including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood leukocyte. Lowest expression in peripheral blood leukocytes and highest in kidney and liver. Isoform 2 is expressed mainly in the brain.
Pathway	Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 4/5. Cofactor biosynthesis; coenzyme A biosynthesis; CoA from (R)-pantothenate: step 5/5.
Sequence similarities	In the central section; belongs to the eukaryotic coaD family. Contains 1 DPCK (dephospho-CoA kinase) domain.
Cellular localization	Cytoplasm.

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