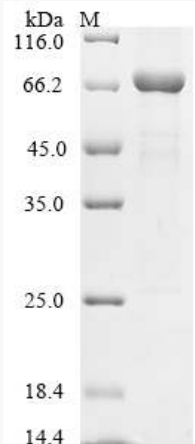


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Datasheet

Product Name	Recombinant Human Acetyl-coenzyme A synthetase 2-like, mitochondrial(ACSS1)
Catalog Number	AAA18741
Expression host	<i>E.coli</i>
Product Info	N-terminal 6xHis-tagged
Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6%Trehalose, pH 8.0. The volume before lyophilization is 100µl/vial.
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids (PubMed:16788062). Acetate is the preferred substrate (PubMed:16788062). Can also utilize propionate with a much lower affinity (By similarity). Provides acetyl-CoA that is utilized mainly for oxidation under ketogenic conditions (By similarity). Involved in thermogenesis under ketogenic conditions, using acetate as a vital fuel when carbohydrate availability is insufficient (By similarity).
AA sequence	ASGPSGSAPAVAAAAAQPGSYPALSAQAAREPAAFWGPLARDTLVWDTPYHT VWDCDFSTGKIGWFLGGQLNVSVNCLDQHVRKSPESVALIWERDEPGTEVRIT YRELLETTCTRLANTLKRHGVHRGDRVAIYMPVSPLAVAAMLACARIGAVHTVI FAGFSAESLAGRINDAKCKVVITFNQGLRGGRVVELKKIVDEAVKHCPTVQHV LVAHRTDNKVHMGDLDPLEQEMAKEDPVCAPESMGSEDMFLMYTSGSTG MPKGIVHTQAGYLLYAALTHKL VFDHQPGDIFGCVADIGWITGHSYVVYGPLC NGATSVLFESTPVYPNAGRYWETVERLKNQFYGAPTAVRLLLKYGDAWVKK YDRSSLRTLGSVGEPINCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIAPRPS EEGAEILPAMAMRPFFGIVPVLMDKGSVVEGSNVSGALCISQAWPGMARTIYG DHQRFVDAYFKAYPGYYFTGDGAYRTEGGYYQITGRMDDVINISGHR LGTAEI EDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDSAGDSVVVQELKSMVATK IAKYAVPDEILVVKRLPKTRSGKVMRLLRKIITSEAQELGDTTTLTLEDPSIIAEILS VYQKCKDKQAAAK
References	"Complete sequencing and characterization of 21,243 full-length human cDNAs." Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S. Sugano S. Nat. Genet. 36:40-45(2004)

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Certificate of Analysis

Product Name	Recombinant Human Acetyl-coenzyme A synthetase 2-like, mitochondrial(ACSS1)		
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Expression host	E.coli		
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Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6%Trehalose, pH 8.0. The volume before lyophilization is 100μl/vial.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.		
Batch Number	DA04973b1g0		
Nature	Human ACSS1-(AA 38-689)-Q9NUB1-Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 °C, one week from the date of receipt	
	Long term	-20 to -80 °C, twelve months from the date of receipt	
Form	Lyophilized powder		
Date of detection	2023.09.26		
Test Items	Specifications		Results
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 75.1 kDa		Observed band size: 75 kDa

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Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	Not done
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass