

ACSS1 Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms: mitochondrial;Propionate--CoA ligase;Acetyl-CoA synthetase 2 (AceCS2);Acyl-CoA synthetase short-chain family member 1;Acetyl-coenzyme A synthetase 2-like, mitochondrial;ACSS1;KIAA1846;ACAS2L;Acetate--CoA ligase 2

Protein Construction: 38-689 aa

Species: Human

Expression Host: E. coli

Accession: Q9NUB1

Molecular Weight: 75.1 kDa (predicted)

AA Sequence: ASGPSGSAPAVAAAAAQP GSY PALSAQAAREPAAF WG PLARDTLVW DTPYHTVWDCDFSTGKIGWFLGGQ LNVSVNCLDQHVRKSPESVALIWERDEPGTEVRITYRELLETTCLANTLKRHGVRGDRVAIYMPVSPLAVA AMLACARIGAVHTVIFAGFSAESLAGRINDAKCKVVITFNQGLRGGRVVELKKIVDEAVKHCPTVQHVLVAHR TDNKVHMGDLDPLEQEMAKEDPVCAPESMGSEDMFLMLYTSGSTGMPKGIVHTQAGYLLYAALHKLKLVFD HQPGDIFGCVADIGWITGHSYVVYGPLCNGATSVLFESTPVYPNAGRYWETVERLKNQFYGAPTAVRLLKYGDAWVKKYDRSSLRTLGSVGPINCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIAPRPSEEGAEILPAMAMRPFPGIVPVLMDKEKGSVVEGSNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEG GYYQITGRMDDVINISGHRLGTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDSAGDSVQELKSMVATKIAKYAVPDEILVVKRLPKTRSGKVMRLLRKIITSEAQELGDTTLEDPSIAEILSVYQKCKDKQAAAK

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids. Acetate is the preferred substrate. Can also utilize propionate with a much lower affinity. Provides acetyl-CoA that is utilized mainly for oxidation under ketogenic conditions. Involved in thermogenesis under ketogenic conditions, using acetate as a vital fuel when carbohydrate availability is insufficient.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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