

ACSS1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Acetyl-coenzyme A synthetase 2-like, mitochondrial;Acyl-CoA synthetase short-chain family member 1;ACSS1;Acetate--CoA ligase 2;ACAS2L;KIAA1846;Propionate--CoA ligase; mitochondrial;Acetyl-CoA synthetase 2 (AceCS2)
Protein Construction:	38-689 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	Q9NUB1
Molecular Weight:	73.6 kDa (predicted)
AA Sequence:	ASGPSGSAPAVAAAAAQPGSYPALSAQAAREPAAFWGPLARDTLVWDTPTYHTVWDCDFSTGKIGWFLGGQ LNVSVNCLDQHVRSPEVALIWERDEPGTEVRITYRELLETCRLANTLKRHGVHRGDRVAIYMPVSPLAVA AMLACARIGAVHTVIFAGFSAESLAGRINDAKCKVVITFNQGLRGGRVVELKKIVDEAVKHCPTVQHVLVAHR TDNKVHMGDLDPLEQEMAKEDPVCAPESMGSEDMLFMLYTSGSTGMPKGIVHTQAGYLLYAALHKLKLVFD HQPGDIFGCVADIGWITGHSYVVYGPLCNGATSVLFESTPVYPNAGRYWETVERLQINQFYGAPTAVRLLKLY GDAWVKKYDRSSLRRTLGSVGPINCEAWEWLHRVVGDSRCTLVDTWWQTETGGICIAPRPSEEGAEILPAMA MRPFFGIVPVLMDKEKGSVVEGSNVSGALCISQAWPGMARTIYGDHQRFDAYFKAYPGYYFTGDGAYRTEG GYYQITGRMDDVINISGHRLGTAEIEDAIADHPAVPESAVIGYPHDIKGEAAFAFIVVKDSAGDSVQELKS MVATKIACYAVPDEILVVKRLPKTRSGKVMRLLRKIITSEAQELGDTTLEDPSIAEILSVYQKCKDKQAAAK

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:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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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