Acetyl-Coenzyme A Synthetase (acs) Escherichia Coli O6 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acetyl-coenzyme A synthetase (acs), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O6 Acetyl-coenzyme A synthetase (acs)
Product Gene Name	acs recombinant protein
Product Synonym Gene Name	acs
Sequence	MSQIHKHTIP ANIADRCLIN PQQYEAMYQQ SINAPDTFWG EQGKILDWIT PYQKVKNTSF APGNVSIKWY EDGTLNLAAN CLDRHLQENG DRTAIIWEGD DASQSKHISY KELHRDVCRF ANTLLELGIK KGDVVAIYMP MVPEAAVAML ACARIGAVHS VIFGGFSPEA VAGRIIDSSS RLVITSDEGV RAGRSIPLKK NVDDALKNPN VTSVEHVVVL KRTGGKIDWQ EGRDLWWHDL VEQASAQHQA EEMNAEDPLF ILYTSGSTGK PKGVLHTTGG YLVYAALTFK YVFDYHPGDI YWCTADVGWV TGHSYLLYGP LACGATTLMF EGVPNWPTPA RMAQVVDKHQ VNILYTAPTA IRALMAEGDK AIEGTDRSSL RILGSVGEPI NPEAWEWYWK KIGNEKCPVV DTWWQTETGG FMITPLPGAT ELKAGSATRP FFGVQPALVD NEGNPLEGAT EGSLVITDSW PGQARTLFGD HERFEQTYFS TFKNMYFSGD GARRDEDGYY WITGRVDDVL NVSGHRLGTA EIESALVAHP KIAEAAVVGI PHNIKGQAIY AYVTLNHGEE PSPELYAEVR NWVRKEIGPL ATPDVLHWTD SLPKTRSGKI MRRILRKIAA GDTSNLGDTS TLADPGVVEK LLEEKQAIAM PS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	71,967 Da
Sequence Positions	1-652, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8FAY8
Species	Escherichia coli O6
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for acs recombinant protein	MBS1420096 is a recombinant protein targeting acs. Also known as Recombinant Escherichia coli O6 Acetyl-coenzyme A synthetase (acs). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of acs recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for acs. It may not necessarily be applicable to this product.

NCBI GI #	446000368
NCBI Accession #	WP_000078223.1

UniProt Primary Accession #	Q8FAY8
GenBank Nucleotide #	WP_000078223.1
NCBI Official Full Name	acetyl-coenzyme A synthetase
UniProt Protein Name	Acetyl-coenzyme A synthetase
UniProt Synonym Protein Names	Acetate--CoA ligase
Protein Family	Aphidicolan-16beta-ol synthase
UniProt Gene Name	acs
UniProt Synonym Gene Names	AcCoA synthetase; Acs
UniProt Comments for acs	Catalyzes the conversion of acetate into acetyl-CoA (AcCoA), an essential intermediate at the junction of anabolic and catabolic pathways. Acs undergoes a two-step reaction. In the first half reaction, Acs combines acetate with ATP to form acetyl-adenylate (AcAMP) intermediate. In the second half reaction, it can then transfer the acetyl group from AcAMP to the sulfhydryl group of CoA, forming the product AcCoA.
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