Cysteine Desulfurase (sufS) Shigella Flexneri Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cysteine desulfurase (sufS), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri Cysteine desulfurase (sufS)
Product Gene Name	sufS recombinant protein
Product Synonym Gene Name	sufS
Sequence	MTFSVDKVRA DFPVLSREVN GLPLAYLDSA ASAQKPSQVI DAEAEFYRHG YAAVHRGIHT LSAQATEKME NVRKRASLFI NARSAEELVF VRGTTEGINL VANSWGNSNV RAGDNIIISQ MEHHANIVPW QMLCARVGAE LRVIPLNPDG TLQLETLPTL FDEKTRLLAI THVSNVLGTE NPLAEMITLA HQHGAKVLVD GAQAVMHHPV DVQALDCDFY VFSGHKLYGP TGIGILYVKE ALLQEMPPWE GGGSMIATVS LSEGTTWTKA PWRFEAGTPN TGGIIGLGAA LEYVSALGLN SIAEYEQNLM HYALSQLESV PDLTLYGQQN RLGVIAFNLG KHHAYDVGSF LDNYGIAVRT GHHCAMPLMA YYNVPAMCRA SLAMYNTHEE VERLVTGLQR IHRLLG
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	44,440 Da
Sequence Positions	1-406, 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 Q7UAH4
Species	Shigella flexneri
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for sufS recombinant protein	MBS1439787 is a recombinant protein targeting sufS. Also known as Recombinant Shigella flexneri Cysteine desulfurase (sufS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of sufS 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 sufS. It may not necessarily be applicable to this product.

NCBI GI #	446066725
NCBI Accession #	WP_000144580.1
UniProt Primary Accession #	Q7UAH4
GenBank Nucleotide #	WP_000144580.1

NCBI Official Full Name	MULTISPECIES: cysteine desulfurase
UniProt Protein Name	Cysteine desulfurase
UniProt Synonym Protein Names	Selenocysteine beta-lyase; SCL; Selenocysteine lyase (EC:4.4.1.16); Selenocysteine reductase
Protein Family	Cysteine desulfurase
UniProt Gene Name	sufS
UniProt Synonym Gene Names	SCL
UniProt Comments for sufS	Cysteine desulfurases mobilize the sulfur from L-cysteine to yield L-alanine, an essential step in sulfur metabolism for biosynthesis of a variety of sulfur-containing biomolecules. Component of the suf operon, which is activated and required under specific conditions such as oxidative stress and iron limitation. Acts as a potent selenocysteine lyase in vitro, that mobilizes selenium from L-selenocysteine. Selenocysteine lyase activity is however unsure in vivo ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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