Probable Sterigmatocystin Biosynthesis P450 Monooxygenase Stcf (stcF) Emericella Nidulans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable sterigmatocystin biosynthesis P450 monooxygenase stcF (stcF), Recombinant Protein
Full Product Name	Recombinant Emericella nidulans Probable sterigmatocystin biosynthesis P450 monooxygenase stcF (stcF)
Product Gene Name	stcF recombinant protein
Product Synonym Gene Name	stcF; cyp60A2; AN7818
Product Synonym Names	Probable sterigmatocystin biosynthesis P450 monooxygenase stcF; EC=1.14.-.-; Cytochrome P450 60A2
Sequence	MILPLILVLY LLSTAAYRLW LHPLRNYPGP CWWAVWRVPY LKGTIRGTIV RDIQRLHNQY GPVVRIAPDE LSYITPEAAK PIYTSSPEFP KDPMHLPPFH NGAPGILAAD YAHHRRYRRL LASAFSEKGL RAQQGMIQSH IDRLMTRLQG NCSSGSLDMT VWFNWATFDI IGDLAFGEPF GCLERMETNP WIASIQGNVK SIPILNALRR YRLDRLIEFL APPRLLEMRR RNAQFTAEKV DRRLKHATTT RGDLWDSVLA DPPDGEPPMS RAEMVSNASA IVLAGSETSA TTLSGCLWLL LTNPEYLQQL TERIRARFST ATVIDAQTVT QIQGLQAVLD ESLRLYPAVP MQSNRIVPPP GARLAGSWVP GGTSVAVQQF AACRSPTNFH RPDEFIPERW EKEGEFINDR REASQPFSIG PRNCIGRQLA LAEMRLILVH LLWHFDIELD RRRMENMDWM AVQGIWILWD KKPLWVVLKN RST
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	55,100 Da
Sequence Positions	1-483aa; 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 Q12609
Species	Emericella nidulans (strain FGSC A4 / 38163 / CBS 112.46 / NRRL 194 / M139) (Aspergillus nidulans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for stcF recombinant protein	MBS1374808 is a recombinant protein targeting stcF. Also known as Recombinant Emericella nidulans Probable sterigmatocystin biosynthesis P450 monooxygenase stcF (stcF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of stcF 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 stcF. It may not necessarily be applicable to this product.

NCBI GI #	67901662

NCBI GeneID	2869566
NCBI Accession #	XP_681087.1
UniProt Primary Accession #	Q12609
UniProt Secondary Accession #	Q5AV62; C8VDU2
GenBank Nucleotide #	XM_675995.1
NCBI Official Full Name	STCF_EMENI Probable sterigmatocystin biosynthesis P450 monooxygenase STCF (Cytochrome P450 60A2)
NCBI Official Symbol	AN7818.2
UniProt Protein Name	Probable sterigmatocystin biosynthesis P450 monooxygenase stcF
UniProt Synonym Protein Names	Cytochrome P450 60A2
Protein Family	Probable sterigmatocystin biosynthesis P450 monooxygenase
UniProt Gene Name	stcF
UniProt Synonym Gene Names	cyp60A2
UniProt Entry Name	STCF_EMENI
NCBI Protein Information	STCF_EMENI Probable sterigmatocystin biosynthesis P450 monooxygenase STCF (Cytochrome P450 60A2)
UniProt Comments for stcF	May be involved in the hydroxylation of averantin to form 5'-hydroxyaverantin, oxidation of averufin to 1-hydroxyversicolorone and its oxidation to versiconal hemiacetal acetate.
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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