Cholesterol Side-Chain Cleavage Enzyme, Mitochondrial (CYP11A1) Dasyatis Americana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cholesterol side-chain cleavage enzyme, mitochondrial (CYP11A1), Recombinant Protein
Full Product Name	Recombinant Dasyatis americana Cholesterol side-chain cleavage enzyme, mitochondrial (CYP11A1)
Product Gene Name	CYP11A1 recombinant protein
Product Synonym Names	Cholesterol side-chain cleavage enzyme, mitochondrial; EC=1.14.15.6; CYPXIA1; Cholesterol desmolase; Cytochrome P450 11A1; Cytochrome P450(scc)
Sequence	I PSEQTLKSLT DIPGNWRKNW LNVYYFWRSN GLNNAHQWML DNFNKYGPIY REKIAYYESI NIINPADAVI MNKSEGPFPK RIEMAPWVAY RDLRKENYGV QLLNGENWKR TRLILNNSIF AQSSIQRLVP LFNEVVLDFV SMVHKEVEKS RSDYWKTDLT NDLFKLALEV ICYILYGERL DLLQRKYNKA PQKFIDSIAT MFHSTPIMLY VPPSLLKSIN SKIWQQHVGS WDNIFEHADT YLKKAYRQFQ QGSKNEHAFP GVLTELLLQG ALPFEDIRAS IIDVMSGAID TTSTTVHWMM YELAKHPHIQ KNVRSEIMEA HQKTEGDPVK MLKSVPLLKC VVKETLRLYP VAISIQRYLN EDTVLQNYHI PAGTLVQLGL YAMGRNPKIF KNPEQYNPER WLKGEDTHFR HLGFGFGPRQ CIGRRIAETQ MVLLMIHMLQ NFKIETDPMT EVKSKFSLIL IPDKPINLKF TPIK
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	59,863 Da
Sequence Positions	40-514aa; 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 Q92045
Species	Dasyatis americana (Southern stingray)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CYP11A1 recombinant protein	MBS1385396 is a recombinant protein targeting CYP11A1. Also known as Recombinant Dasyatis americana Cholesterol side-chain cleavage enzyme, mitochondrial (CYP11A1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CYP11A1 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 CYP11A1. It may not necessarily be applicable to this product.

NCBI GI #	3913354

NCBI Accession #	Q92045.1
UniProt Primary Accession #	Q92045
NCBI Official Full Name	Cholesterol side-chain cleavage enzyme, mitochondrial
UniProt Protein Name	Cholesterol side-chain cleavage enzyme, mitochondrial
UniProt Synonym Protein Names	CYPXIA1; Cholesterol desmolase; Cytochrome P450 11A1; Cytochrome P450(scc)
Protein Family	Cholesterol side-chain cleavage enzyme
UniProt Gene Name	CYP11A1
UniProt Entry Name	CP11A_DASAM
UniProt Comments for CYP11A1	Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone.
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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