Iron-Regulated Surface Determinant Protein C (isdC) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Iron-regulated surface determinant protein C (isdC), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus Iron-regulated surface determinant protein C (isdC)
Product Gene Name	isdC recombinant protein
Product Synonym Gene Name	isdC
Sequence	ADSGTLNYEV YKYNTNDTSI ANDYFNKPAK YIKKNGKLYV QITVNHSHWI TGMSIEGHKE NIISKNTAKD ERTSEFEVSK LNGKIDGKID VYIDEKVNGK PFKYDHHYNI TYKFNGPTDV AGANAPGKDD KNSASGSDKG SDGTTTGQSE SNSSNKDKVE NPQT
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	24,855 Da
Sequence Positions	29-192, 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 Q6GA84
Species	Staphylococcus aureus (strain MSSA476)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for isdC recombinant protein	MBS1340450 is a recombinant protein targeting isdC. Also known as Recombinant Staphylococcus aureus Iron-regulated surface determinant protein C (isdC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of isdC 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 isdC. It may not necessarily be applicable to this product.

NCBI GI #	446712477
NCBI Accession #	WP_000789821.1
UniProt Primary Accession #	Q6GA84
GenBank Nucleotide #	WP_000789821.1
NCBI Official Full Name	MULTISPECIES: iron-regulated surface determinant protein C

UniProt Protein Name	Iron-regulated surface determinant protein C
UniProt Synonym Protein Names	Staphylococcal iron-regulated protein D
Protein Family	Iron-regulated surface determinant protein
UniProt Gene Name	isdC
UniProt Synonym Gene Names	sirD
UniProt Comments for isdC	Involved in heme (porphyrin) scavenging. Binds hemoglobin and almost exclusively free-base protoporphyrin IX. Probably has a role as the central conduit of the isd heme uptake system, i.e. mediates the transfer of the iron-containing nutrient from IsdABH to the membrane translocation system IsdDEF. Hemin-free IsdC (apo-IsdC) acquires hemin from hemin-containing IsdA (holo-IsdA) probably through the activated holo-IsdA-apo-IsdC complex and due to the higher affinity of apo-IsdC for the cofactor. The reaction is reversible ().
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