

Iron-regulated surface determinant protein A (isdA) Recombinant Protein | isdA recombinant protein

Recombinant Staphylococcus aureus Iron-regulated surface determinant protein A (isdA)

CATALOG # AAA18786	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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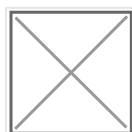
PRODUCT SYNONYMS

Iron-regulated surface determinant protein A (isdA); Recombinant Staphylococcus aureus Iron-regulated surface determinant protein A (isdA); isdA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	47-316aa; Full Length of Mature Protein
Sequence	ATEATNATNN QSTQVSQATS QPINFQVQKD GSSEKSHMDD YMQHPGKVIK QNNKYFQTV LNNASFWKEY KFYNANNQEL ATTVVNDNKK ADTRTINAV EPGYKSLTTK VHIVVPQINY NHRYTTHLEF EKA IPTLADA AKPNNVKPVQ PKPAQPKTPT EQTKPVQPKV EKVKPTVTTT SKVEDNHSTK VVSTDTTKDQ TKTQTAHTVK TAQTAQE QNK VQTPVKDVAT AKSESNNQAV SDNKSQQTNK VTKHNETPKQ ASKAKELPKT
Species	Staphylococcus aureus (strain MSSA476)
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for isdA recombinant protein	Transfers its heme to heme-free IsdC (apo-IsdC) directly probably through the activated holo-IsdA-apo-IsdC complex and driven by the higher affinity of apo-IsdC for the cofactor. The reaction is reversible. Binds transferrin, lactoferrin, heme, hemoglobin, heme, fetuin, asialofetuin and protein A. Also binds fibronectin and chains B-beta and gamma of fibrinogen. Could play a role in the removal of heme from hemoglobin. The IsdA-mediated iron-acquisition system from transferrin could play only an ancillary role in the iron uptake whereas the siderophore-mediated iron-acquisition system from transferrin seems to play an essential or dominant role. May function as a reservoir for heme. Involved in adherence of S.aureus to human desquamated nasal epithelial cells and is required for nasal colonization. Protects S.aureus against the bactericidal protease activity of apolactoferrin in vitro and confers resistance to bovine lactoferricin. Also IsdA and or IsdB promote resistance to hydrogen peroxide and killing by neutrophils
References	"Complete genomes of two clinical Staphylococcus aureus strains: evidence for the rapid evolution of virulence and drug resistance." Holden M.T.G., Feil E.J., Lindsay J.A., Peacock S.J., Day N.P.J., Enright M.C., Foster T.J., Moore C.E., Hurst L., Atkin R., Barron A., Bason N., Bentley S.D., Chillingworth C., Chillingworth T., Churcher C., Clark L., Corton C.Parkhill J. Proc. Natl. Acad. Sci. U.S.A. 101:9786-9791(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	446083004
NCBI Accession #	WP_000160859.1
NCBI GenBank Nucleotide #	WP_000160859.1
UniProt Accession #	Q6GA85
Molecular Weight	35.1 kDa
NCBI Official Full Name	MULTISPECIES: iron-regulated surface determinant protein A
UniProt Protein Name	Iron-regulated surface determinant protein A
UniProt Gene Name	isdA
UniProt Synonym Gene Names	frpA; stbA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/isda-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/18786>