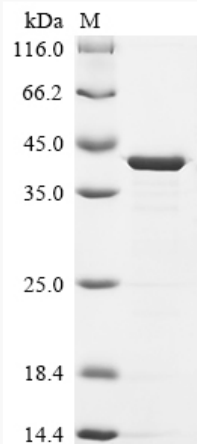


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Certificate of Analysis

Product Name	Recombinant Staphylococcus aureus Iron-regulated surface determinant protein A (isdA)		
Catalog Number	AAA18786		
Expression host	E.coli		
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged		
Buffer	0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol		
Batch Number	YD04542a7g5		
Nature	Staphylococcus aureus isdA-(AA 47-316)- Q6GA85 -Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 °C, one week from the date of receipt	
	Long term	-20 to -80 °C, six months from the date of receipt	
Form	Liquid		
Date of detection	2024.09.10		
Test Items	Specifications		Results
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.29 mg/ml
Purity	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		91%
Molecular Weight	Predicted band size: 35.1 kDa		Observed band size: 42 kDa The reducing (R) protein migrates as 42 kDa in SDS-PAGE may be due to molecular structure of protein.

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Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	0.2 µm sterile filtered	
Endotoxin Level	<1.0 EU per 1µg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	

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Datasheet

Product Name	Recombinant Staphylococcus aureus Iron-regulated surface determinant protein A (isdA)
Catalog Number	AAA18786
Expression host	<i>E.coli</i>
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Buffer	0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Cell wall-anchored surface receptor that participates in the extraction of heme from oxidized methemoglobin/methHb to enable growth on hemoglobin as a sole iron source. Receives heme from IsdB and transfers it to IsdC. Plays also a role in the inhibition of host immune response. Protects S.aureus against the bactericidal protease activity of apolactoferrin. Enhances bacterial cellular hydrophobicity, which renders S.aureus resistant to bactericidal human skin fatty acids as well as to beta-defensins and cathelicidin. Also binds fibronectin and chains B-beta and gamma of fibrinogen, promoting clumping of S.aureus with fibrinogen. Involved in adherence of S.aureus to human desquamated nasal epithelial cells and is required for nasal colonization.
AA sequence	ATEATNATNNQSTQVSQATSQPINFQVQKDGSSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKE YKFYNANNQELATTVVNDNKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKP NNVKPVQPKPAQPKTPTEQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTVKTAQTA QEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQASKAKELPKT