

Clumping factor A Protein, *S. aureus*

Cat. No.:	HY-P71581
Synonyms:	clfA; SAS0752; Clumping factor A; Fibrinogen receptor A; Fibrinogen-binding protein A
Species:	Staphylococcus aureus
Source:	E. coli
Accession:	Q6GB45 (228G-558E)
Gene ID:	/
Molecular Weight:	Approximately 43 kDa. The reducing (R) protein migrates as 43 kDa in SDS-PAGE maybe due to relative Charge.

PROPERTIES

AA Sequence	<pre> G K D I T N Q L T N V T V G I D S G D T V Y P H Q A G Y V K L N Y G F S V P N S A V K G D T F K I T V P K E L N L N G V T S T A K V P P I M A G D Q V L A N G V I D S D G N V I Y T F T D Y V D T K E N V T A N I T M P A Y I D P E N V T K T G N V T L T T G I G S T T A N K T V L V D Y E K Y G K F Y N L S I K G T I D Q I D K T N N T Y R Q T I Y V N P S G D N V I A P V L T G N L K P N T D S N A L I D Q Q N T S I K V Y K V D N A A D L S E S Y F V N P E N F E D V T N S V N I T F P N P N Q Y K V E F N T P D D Q I T T P Y I V V V N G H I D P N S K G D L A L R S T L Y G Y D S R F V W R S M S W D N E V A F N N G S G S G D G I D K P V V P E Q P D E P G E I E P I P E </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Clumping factor A (ClfA) protein is a cell surface-associated protein that plays a significant role in bacterial virulence. This
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protein is implicated in the pathogenicity of bacteria by promoting bacterial attachment exclusively to the gamma-chain of human fibrinogen. By selectively binding to the gamma-chain, ClfA facilitates the adherence of bacteria to host tissues, a crucial step in the establishment of infections. Additionally, ClfA induces the formation of bacterial clumps, which may enhance bacterial survival and evasion of the host immune response. Several researches indicate that ClfA is a cell surface-associated protein implicated in virulence, specifically highlighting its role in promoting bacterial attachment to the gamma-chain of human fibrinogen and inducing the formation of bacterial clumps.

Caution: Product has not been fully validated for medical applications. For research use only.

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