

CAP5A Protein, Staphylococcus aureus (Cell-Free, His)

Cat. No.:	HY-P702230
Synonyms:	Capsular polysaccharide type 5 biosynthesis protein cap5A
Species:	Staphylococcus aureus
Source:	E. coli Cell-free
Accession:	P95695 (M1-N222)
Gene ID:	/
Molecular Weight:	26.4 kDa

PROPERTIES

AA Sequence	<pre> M E S T L E L T K I K E V L Q K N L K I L I I L P L L F L I I S A I V T F F V L S P K Y Q A N T Q I L V N Q T K G D N P Q F M A Q E V Q S N I Q L V N T Y K E I V K S P R I L D E V S K D L N D K Y S P S K L S S M L T I T N Q E N T Q L I N I Q V K S G H K Q D S E K I A N S F A K V T S K Q I P K I M S V D N V S I L S K A D G T A V K V A P K T V V N L I G A F F L G L V V A L I Y I F F K V I F D K R I K D E E D V E K E L G L P V L G S I Q K F N </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 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. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	CAP5A plays a vital role in the intricate process of biosynthesizing type 5 capsular polysaccharide (Cap5/CP5). Acting as a potential chain-length regulator, its role is pivotal in orchestrating the controlled assembly of the capsular polysaccharide structure. The enzymatic functions of CAP5A contribute to the precise biosynthesis of Cap5/CP5, highlighting its significance in the intricate molecular machinery governing the formation and regulation of capsular polysaccharides, particularly in the context of type 5 structures.
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Caution: Product has not been fully validated for medical applications. For research use only.

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