ACPS Protein, Streptococcus pyogenes serotype M28 (Baculovirus, His-Myc)

Cat. No.:	HY-P72060
Synonyms:	acpS; M28_Spy1523Holo-[acyl-carrier-protein] synthase; Holo-ACP synthase; EC 2.7.8.7; 4'-phosphopantetheinyl transferase AcpS
Species:	Others
Source:	Sf9 insect cells
Accession:	Q48RM7 (M1-K118)
Gene ID:	/
Molecular Weight:	Approximately 17.1 kDa

PROPERTIES

AA Sequence	M I V G H G I D L Q E I S A I E K V Y Q R N P R F A Q K I L T E Q E L A I F E S F P Y K R R L S Y L A G R W A G K E A F A K A I G T G I G R L T F Q D I E I L N D V R G C P I L T K S P F K G N S F I S I S H S G N Y V Q A S V I L E D K K
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Acyl carrier protein synthases (AcpSs), which are about 120 amino acid residues in length, and display a biologically active trimeric arrangement of α/β fold. A structure-based sequence comparison between AcpS and its ACP substrates from various species demonstrated that the proteins of the Corynebacterineae family display high sequence conservation, forming a segregated subgroup of AcpS and ACPs. Sequence-based structure analysis of AcpS and its ACP substrates from different species revealed that for the Corynebacterineae family of bacteria, AcpS, ACP-I, and ACPM each display high sequence conservation that sets them apart from other bacteria, fungi, and parasites[1].

REFERENCES

[1]. Orly Dym, et al. Structure-function analysis of the acyl carrier protein synthase (AcpS) from Mycobacterium tuberculosis. J Mol Biol. 2009 Nov 6;393(4):937-50.

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

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