YUAB Protein, Bacillus subtilis (Cell-Free, His-SUMO)

Cat. No.:	HY-P72009
Synonyms:	bslA; yuaB; BSU31080Biofilm-surface layer protein A; ORF-1
Species:	Others
Source:	E. coli Cell-free
Accession:	P71014 (M1-N181)
Gene ID:	938831
Molecular Weight:	Approximately 35.3 kDa

PROPERTIES

AA Sequence	MKRKLLSSLA ISALSLGLLV SAPTASFAAE STSTKAHTES TMRTQSTASL FATITGASKT EWSFSDIELT YRPNTLLSLG VMEFTLPSGF TANTKDTLNG NALRTTQILN NGKTVRVPLA LDLLGAGEFK LKLNNKTLPA AGTYTFRAEN KSLSIGNKFY AEASIDVAKR STPPTQPCGC N
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	YUAB, a key player in biofilm formation, engages in self-polymerization, creating a distinctive layer on the biofilm surface that imparts hydrophobic properties. This layer demonstrates stability and resilience, displaying resistance to significant mechanical force compression. Crucial for the development of complex colony architecture, YUAB is implicated in synergistic interactions with exopolysaccharides and TasA amyloid fibers, facilitating the assembly of the biofilm matrix. As a polymer-forming entity, YUAB contributes to the structural integrity and hydrophobic characteristics of the biofilm.

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

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