

Pal Protein, Legionella pneumophila (His-SUMO)

Cat. No.:	HY-P71467
Synonyms:	pal; pplA; Peptidoglycan-associated lipoprotein; PAL; 19kDa surface antigen; PPL
Species:	Others
Source:	E. coli
Accession:	P26493 (C22-R176)
Gene ID:	57036037
Molecular Weight:	Approximately 36 kDa, The reducing (R) protein migrates as 36 kDa in SDS-PAGE may be due to relative charge.

PROPERTIES

AA Sequence	<p>C S K T P G S A D G G A A V G D G D A T A Q G L G Q M T H F A G Q E P G E S Y T</p> <p>T Q A P H N Q L Y L F A Y D D S T L A S K Y L P S V N A Q A E Y L K T H P G A R</p> <p>V M I A G H T D E R G S R E Y N V A L G E R R A D T V A E I L R M A G V S R Q Q</p> <p>I R V V S Y G K E R P A N Y G H D E A S H A Q N R R V E F I Y E A T R</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, pH 7.4.
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	<p>Pal protein is an integral component of the Tol-Pal system, contributing to outer membrane invagination during cell division and playing a crucial role in maintaining outer membrane integrity. This system, comprised of five core proteins—ToIA, ToIQ, TolR in the inner membrane, TolB in the periplasm, and Pal in the outer membrane—forms a sophisticated network that connects the inner and outer membranes to the peptidoglycan layer. Pal protein, in particular, exhibits a robust association with the peptidoglycan, highlighting its significance in the structural and functional interplay within the Tol-Pal system.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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