

## Outer membrane protein A/OmpA Protein, E.coli (His-SUMO)

<b>Cat. No.:</b>	HY-P71493
<b>Synonyms:</b>	ompA; Z1307; ECs1041; Outer membrane protein A; Outer membrane porin A
<b>Species:</b>	E.coli
<b>Source:</b>	E. coli
<b>Accession:</b>	P0A911 (W164-A346)
<b>Gene ID:</b>	917123
<b>Molecular Weight:</b>	Approximately 35.6 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           WTNNIGDAHT I GTRPDNGML SLGVS YRFGQ GEAAPVVAPA            PAPAPEVQTK HFTLKSDVLF NFNKATLKPE GQAALDQLYS            QLSNLDPKDG SVVVLGYTDR I GSDAYNQGL SERRAQSVD            YLISKGIPAD KISARGMGES NPVTGNTCDN VKQRAALIDC            LAPDRRVEIE VKG IKDVVTQ PQA         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Outer membrane protein A (OmpA) plays a crucial role in the structural integrity of the bacterial cell wall, working in concert with TolR to maintain the position of the peptidoglycan layer in the periplasm. Functioning as a porin, OmpA exhibits low permeability, facilitating the gradual penetration of small solutes through its structure. The internal gate within OmpA further regulates the passage of solutes, influencing the selective transport of molecules. Additionally, OmpA's significance extends to its involvement in conjugation with F-type plasmids, where it likely serves as the essential mating receptor on recipient cells, contributing to the horizontal transfer of genetic material.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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