

Outer membrane protein C/OmpC Protein, Klebsiella pneumoniae (His, myc)

Cat. No.:	HY-P72286
Synonyms:	Outer membrane porin C; Outer membrane protein C; Porin OmpC; Porin ompk36
Species:	Others
Source:	E. coli
Accession:	Q48473 (A22-F363)
Gene ID:	/
Molecular Weight:	Approximately 45.0 kDa

PROPERTIES

AA Sequence	<pre> A E I Y N K D G N K L D L Y G K I D G L H Y F S D D K D V D G D Q T Y M R L G V K G E T Q I N D Q L T G Y G Q W E Y N V Q A N N T E S S S D Q A W T R L A F A G L K F G D A G S F D Y G R N Y G V V Y D V T S W T D V L P E F G G D T Y G S D N F L Q S R A N G V A T Y R N S D F F G L V D G L N F A L Q Y Q G K N G S V S G E G A T N N G R G A L K Q N G D G F G T S V T Y D I F D G I S A G F A Y A N S K R T D D Q N Q L L L G E G D H A E T Y T G G L K Y D A N N I Y L A T Q Y T Q T Y N A T R A G S L G F A N K A Q N F E V A A Q Y Q F D F G L R P S V A Y L Q S K G K D L N G Y G D Q D I L K Y V D V G A T Y Y F N K N M S T Y V D Y K I N L L D D N S F T R S A G I S T D D V V A L G L V Y Q F </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm sterile filtered 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	The Outer membrane protein C (OmpC) is a homotrimeric protein integral to the outer membrane of bacteria, forming pores that enable the passive diffusion of small molecules. In <i>Klebsiella pneumoniae</i> , OmpC demonstrates additional functionality by binding to the C1Q component, thereby activating the classical pathway of the complement system. This interaction implicates OmpC in the modulation of the host immune response, showcasing its relevance beyond membrane
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permeability. The homotrimeric structure of OmpC underscores its stability and efficiency in facilitating the transport of molecules across the bacterial outer membrane.

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

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