

Outer membrane protein F/OmpF Protein, E.coli (His, myc)

Cat. No.:	HY-P72279
Synonyms:	Outer membrane protein B; Outer membrane protein IA
Species:	E.coli
Source:	E. coli
Accession:	P02931 (A23-F362)
Gene ID:	61754051/945554
Molecular Weight:	Approximately 44.1 kDa

PROPERTIES

AA Sequence	<pre> A E I Y N K D G N K V D L Y G K A V G L H Y F S K G N G E N S Y G G N G D M T Y A R L G F K G E T Q I N S D L T G Y G Q W E Y N F Q G N N S E G A D A Q T G N K T R L A F A G L K Y A D V G S F D Y G R N Y G V V Y D A L G Y T D M L P E F G G D T A Y S D D F F V G R V G G V A T Y R N S N F F G L V D G L N F A V Q Y L G K N E R D T A R R S N G D G V G G S I S Y E Y E G F G I V G A Y G A A D R T N L Q E A Q P L G N G K K A E Q W A T G L K Y D A N N I Y L A A N Y G E T R N A T P I T N K F T N T S G F A N K T Q D V L L V A Q Y Q F D F G L R P S I A Y T K S K A K D V E G I G D V D L V N Y F E V G A T Y Y F N K N M S T Y V D Y I I N Q I D S D N K L G V G S D D T V A V G I 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	<1.0 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 F (OmpF) plays a crucial role in bacterial physiology as it forms pores facilitating the passive diffusion of small molecules across the outer membrane. Serving as a key component in membrane permeability, OmpF contributes to the uptake of essential nutrients and substances by the bacterial cell. Furthermore, OmpF serves as a receptor for the bacteriophage T2, allowing the virus to recognize and infect the bacterial host. Additionally, there is a
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probable association between OmpF and colicin E5, where OmpF is identified as the major receptor for this bacteriocin. This dual functionality of OmpF in nutrient uptake and its interactions with bacteriophages and colicins underscores its significance in bacterial membrane dynamics and host-defense mechanisms.

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

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