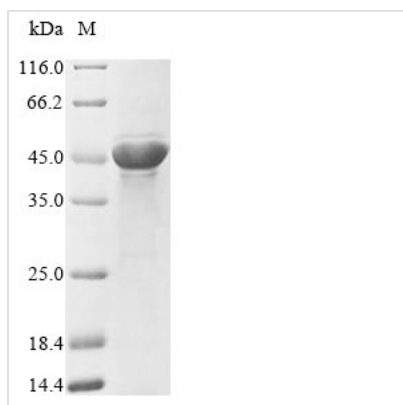




Recombinant Escherichia coli Outer membrane protein F (ompF)

Product Code	CSB-EP365808ENV
Abbreviation	Recombinant E.coli ompF protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P02931
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	AEIYNKDG NKVDLYGKAVGLHYFSKGNGENSYGGNGDMTYARLGFKGETQIN SDLTGYGQWEYNFQGNNSEGADAQTGNKTRLAFAGLKYADVGSFDYGRNYG VVDALGYTDM LPEFGGDTAYSDDFFVGRVGGVATYRNSNFFGLVDGLNFAV QYLGKNERDTARRSNGDGVGGSISYEYEGFGIVGAYGAADRTNLQEAQPLGN GKKA EQWATGLKYDANNIYLAANYGETRNATPITNKFTNTSGFANKTQDVLLV AQYQDFDGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFNKNMSTYVDYI INQIDSDNKLGVGSDDTVAVGIVYQF
Research Area	Others
Source	E.coli
Target Names	ompF
Protein Names	Recommended name: Outer membrane protein F Alternative name(s): Outer membrane protein 1A Outer membrane protein B Outer membrane protein 1A Porin OmpF
Expression Region	23-362aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	44.5 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Recombinant E.coli K12 ompF protein is an E.coli-expressed protein (Full Length of Mature Protein). Molecularly, this ompF protein is characterized by N-terminal 10xHis tag and C-terminal Myc tag, internal E.coli K12 ompF DNA fragment (23-362aa). Standard methods for recombinant ompF protein expression comprise transfecting cells with DNA vectors that consist of specific templates and then cultures cells to translate and transcribe the ompF protein production process. Typically, these cells are lysed to extract expressed proteins for more purification. The purity of this recombinant ompF protein is 85%+ measured by SDS-PAGE.

The porin ompF is a trimeric integral membrane protein that contributes to the passive diffusion of small hydrophilic molecules, such as nutrients, antibiotics, and toxic salts, across the outer membrane (OM) of E.coli. ompF is expressed in response to environmental changes such as temperature, osmolarity, nutrients availability, and toxic compounds through transcriptional and post-transcriptional modulation-involved signaling pathways. Group A colicins insert the translocation and active domains via ompF pores, allowing for the exertion of their cytotoxic action. Colicin N uses ompF both as receptor and translocator for its import.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.