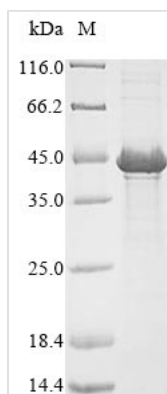




# Recombinant Neisseria meningitidis serogroup B

## Major outer membrane protein P.IA (porA)

<b>Product Code</b>	CSB-EP320687NKG
<b>Relevance</b>	Serves as a slightly cation selective porin. Major antigen on the gonococcal cell surface and it may have pathogenic properties in addition to its porin activity.
<b>Abbreviation</b>	Recombinant Neisseria meningitidis serogroup B porA protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P0DH58
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Neisseria meningitidis serogroup B (strain MC58)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	DVSLYGEIKAGVEGRNYQLQLTEAQAANGGASGQVKVTKVTKAKSRIRTKISD FGSFIGFKGSEDLGDGLKAVWQLEQDVSVAGGGATQWGNRESFIGLAGEFGT LRAGR VANQFDDASQAIDPWDSNNDVASQLGIFKRHDDMPVSVRYDSPEFSG FSGSVQFVPIQNSKSAYTPAYYTKNTNNLTLVPAVVGKPGSDVYYAGLNYKN GGFAGNYAFKYARHANVGRNAFELFLIGSGSDQAKGTDPLKNHQVHRLTGGY EEGGLNLALAAQLDSENGDKTKNSTTEIAATASYRFGNAVPRISYAHGFDFIE RGKKGENTS YDQIIAGVDYDFSKRTSAIVSGAWLKRNTGIGNYTQINAASVGLR HKF
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	porA
<b>Protein Names</b>	Class 1 protein
<b>Expression Region</b>	20-392aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	44.1 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



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

## Description

Amino acids 20-392 constitute the expression domain of recombinant *Neisseria meningitidis* serogroup B porA. The expected molecular weight for the porA protein is calculated to be 44.1 kDa. Expression of this porA protein is conducted in *e.coli*. The N-terminal 6xHis tag was smoothly integrated into the coding gene of porA, which enables a simple process of detecting and purifying the porA recombinant protein in the following steps.

The *Neisseria meningitidis* serogroup B major outer membrane protein P.IA (PorA) is a crucial antigenic protein that plays a significant role in the pathogenesis and immune response against *Neisseria meningitidis*, a bacterium responsible for causing meningococcal diseases. PorA is a porin protein known for its high variability, making it a key factor in distinguishing different strains. PorA is an important component of outer membrane vesicle (OMV) vaccines developed to protect against meningococcal B infections. Investigations into PorA contribute to the development of strategies to combat *Neisseria meningitidis* infections and enhance vaccine design, emphasizing the importance of understanding the antigenic properties of this major outer membrane protein.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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