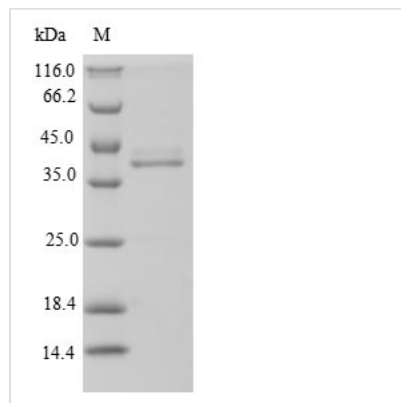




# Recombinant Neisseria meningitidis serogroup B Penicillin-binding protein 1A (mrcA), partial

<b>Product Code</b>	CSB-EP363014NNG
<b>Relevance</b>	Cell wall formation. Synthesis of cross-linked peptidoglycan from the lipid intermediates. The enzyme has a penicillin-insensitive transglycosylase N-terminal domain (formation of linear glycan strands) and a penicillin-sensitive transpeptidase C-terminal domain (cross-linking of the peptide subunits)
<b>Abbreviation</b>	Recombinant Neisseria meningitidis serogroup B mrcA protein, partial
<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>	P0A0Z6
<b>Alias</b>	Peptidoglycan TGase DD-transpeptidase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Neisseria meningitidis serogroup B (strain MC58)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	KAPSAYNPIVNPERAKLRQKYILNNMLEEKMITVQQRDQALNEELHYERFVRKI DQSALYVAEMVRQELYEKYGEDAYTQGFKVYTTVRADHQKVATEALRKALRN FDRGSSYRGAENYIDLSKSEDVEETVSQYLSGLYTVDKMVPVAVLDVTKKKNV VIQLPGGRRVTLDRRALGFAARAVNNEKMGEDRIRRGAVIRVKNNNGRW
<b>Research Area</b>	others
<b>Source</b>	E.coli
<b>Target Names</b>	mrcA
<b>Expression Region</b>	206-413aa
<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-SUMO-tagged
<b>Mol. Weight</b>	40.0kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



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

## Description

The Recombinant *Neisseria meningitidis* serogroup B mrcA is a precision-engineered version of the native Penicillin-binding protein 1A found in *Neisseria meningitidis* serogroup B strain MC58. This product is aimed at providing a robust and reliable protein for your research requirements.

The product is expressed in *E. coli*, with a defined expression region between the 206-413aa. This results in a partially length protein which is designed to retain the key functional elements of the full protein. To enhance its detection and purification, the protein has been N-terminal 6xHis-SUMO-tagged.

The Recombinant *Neisseria meningitidis* serogroup B mrcA protein is subjected to rigorous quality control, ensuring a purity of over 90%, as determined by SDS-PAGE. This level of purity guarantees a high-quality product, designed to deliver consistent performance in your experiments.

## 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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