



Recombinant Bacillus anthracis Protective antigen (pagA), partial

Product Code	CSB-EP320223BQE(A4)-B
Relevance	One of the three proteins composing the anthrax toxin, the agent which infects many mammalian species and that may cause death. PA binds to a receptor (ATR) in sensitive eukaryotic cells, thereby facilitating the translocation of the enzymatic toxin components, edema factor and lethal factor, across the target cell membrane. PA associated with LF causes death when injected, PA associated with EF produces edema. PA induces immunity to infection with anthrax.
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.	P13423
Product Type	Recombinant Protein
Immunogen Species	Bacillus anthracis
Purity	>85% (SDS-PAGE)
Sequence	EVKQENRLLNESESSSQGLLGYFSDLNQAPMVVTSSTTGDLSSIPSELENIP SENQYF QSAIWSGFIKVKKSDEYTFATSADNHVTMWVDDQEVINKASNSNKIRLEKGR L YQIKIQY QRENPTKGLDFKLYWTD SQNKKEVISSDNLQLPELKQKSSNSRKKR
Source	E.coli
Target Names	pagA
Protein Names	Recommended name: Protective antigen Short name= PA Alternative name(s): Anthrax toxins translocating protein PA-83 Short name= PA83 Cleaved into the following 2 chains: 1. Protective antigen PA-20 Short name= 2. PA20 3. Protective antigen PA-63 Short nam
Expression Region	30-196
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial
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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