

## 32-7897: Recombinant Human Bactericidal Permeability-Increasing Protein/BPI/CAP57 (C-6His)

**Gene :** BPI  
**Gene ID :** 671  
**Uniprot ID :** P17213

### Description

Source: Human Cells.  
MW :52.5kD.

Recombinant Human CAP57 is produced by our Mammalian expression system and the target gene encoding Val32-Lys487 is expressed with a 6His tag at the C-terminus. Bactericidal permeability-increasing protein(BPI for short), is a secreted protein which belongs to the BPI/LBP/Plunc superfamily, BPI/LBP family. It exists as a monomer or a disulfide-linked homodimer. The cytotoxic action of BPI is limited to many species of Gram-negative bacteria. This specificity may be explained by a strong affinity of the very basic N-terminal half for the negatively charged lipopolysaccharides that are unique to the Gram-negative bacterial outer envelope. BPI has antibacterial activity against the Gram-negative bacterium *P.aeruginosa*, and this activity is inhibited by LPS from *P.aeruginosa*.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** VNPGVVVRISQKGLDYASQQGTAALQKELKRIKIPDYSDFKIKHLGKGHYSFYSDIREFQLPSSQI  
SMVPNVGLKFSISNANIKISGKWKAQKRFLKMSGNFDLSIEGMSISADLKLGSNPTSGKPTITCSSC  
SSHINSVHVHISKSKVGWLIQLFHKKIESALRNKMNSQVCEKVTNSVSSKLQPYFQTLPMVKIDSV  
AGINYGLVAPPATTAETLDVQMKGEFYSENHHNPPPFAPPVMEFPAAHDRMVYLGSLDYFFNTAG  
LVYQEAGVLKMTLRDDMIPKESKFRLLTKFFGTFLPEVAKKFPNMKIQIHVSASTPPHLSVQPTGLT  
FYPAVDVQAFVLPNSSLASFLIGMHTTGSMEVSAESNRLVGELKLDRLLELKHSNIGPFPVELL  
QDIMNYIVPILVLPVNEKLQKGFPLPTPARVQLYNVVLQPHQNFLFLGADVYKVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.