



Recombinant Protein Technical Manual  
Recombinant Human BPI/CAP57 Protein (His Tag)  
RPES3282

### Product Data:

**Product SKU:** RPES3282

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P17213

### Protein Information:

**Molecular Mass:** 52.5 kDa

**AP Molecular Mass:** 50 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Bactericidal permeability-increasing protein;BPI;CAP57

## Immunogen Information:

**Sequence:** Val32-Lys487

## Background:

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*.