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Recombinant Human BPI/CAP57 Protein

Catalog No.: RP02800 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	671	P17213

Tags
C-His

Synonyms
BPIFD1; rBPI; BPI

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
52.1 kDa	50-60 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Bactericidal/permeability-increasing protein is a member of the BPI/LBP/Plunc superfamily and BPI/LBP family. It is a cationic protein which can be detected in the azurophilic granule and on the surface of polymorphonuclear leukocytes. Bactericidal/permeability-increasing protein also is a lipopolysaccharide binding protein. It is associated with human neutrophil granules and has bactericidal activity on gram-negative organisms. Bactericidal/permeability-increasing protein contains two domains that adopt the same structural fold, even though they have little sequence similarity. It binds to and neutralises lipopolysaccharides from the outer membrane of Gram-negative bacteria. The cytotoxic action of bactericidal/permeability-increasing protein 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.

Basic Information

Description
Recombinant Human BPI/CAP57 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys487) of Human BPI/CAP57 (Accession #NP_001716.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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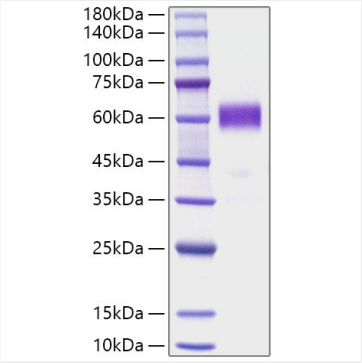
Validation Data



Recombinant Human BPI/CAP57 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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