Native Human Bacterial/Permeability-Increasing Protein

Cat. No. BPI-72H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	Human Neutrophil
Description	Bactericidal/permeability increasing protein (BPI) is a 456 residue protein which is part of the innate immune system. BPI was initially identified in neutrophils, but is found in other tissues including the epithelial lining of mucus membranes. It is an endogenous antibiotic protein with potent killing activity against Gram-negative bacteria. It binds to compounds called lipopolysaccharides produced by Gram-negative bacteria. Lipolysaccharides are potent activators of the immune system; however BPI at certain concentrations can prevent this activation. Bacterial/Permeability-Increasing Protein (BPI) is present in the azurophilic granules of polymorphonuclear leukocytes (PMN). BPI is toxic only toward Gram-negative bacteria. This specificity is attributable to the strong attraction of BPI for the lipopolysaccharides (LPS) in the bacterial envelope. BPI is also an important antigen for anti-neutrophil cytoplasmic autoantibodies (ANCA) in vasculitis.
Form	Frozen
Molecular Mass	55 kDa
Purity	Purity by SDS-PAGE: ≥95%
Usage	For Research Use Only! Not For Use in Humans.

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Notes	Centrifuge the vial prior to opening
Storage	-80°C
Storage Buffer	Frozen in 80 mM Citrate Phosphate, pH 5.6, 0.75 M NaCl.
Shipping	Dry Ice

GENE INFORMATION

Gene Name	BPI bactericidal/permeability-increasing protein [Homo sapiens]
Official Symbol	BPI
Synonyms	BPI; bactericidal/permeability-increasing protein; bactericidal permeability-increasing protein; BPI fold containing family D; member 1; BPIFD1; CAP 57; recombinant BPI holoprotein, rBPI; BPI fold containing family D, member 1; rBPI;
Gene ID	671
mRNA Refseq	NM_001725
Protein Refseq	NP_001716
MIM	109195
UniProt ID	P17213
Chromosome Location	20q11.23
Function	Gram-negative bacterial cell surface binding; lipid binding; lipopolysaccharide binding;

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