

# Recombinant human PLUNC protein

Catalog Number: ATGP1908

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

20-256aa

### UniProt No.

Q9NP55

### NCBI Accession No.

NP\_057667

### Alternative Names

BPI fold-containing family A member 1, BPI fold-containing family A, member 1, bA49G10.5, LPLuNC3, LuNX, NASG, PLuNC, SPuRT

## PRODUCT SPECIFICATION

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### Molecular Weight

27.1 kDa (260aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by BCA assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

BPIFA1, also known as PLuNC, belongs to the short subfamily of PLuNC family proteins and have homology only to the Nterminal domains of BPI. It is a secreted protein that is expressed in the secretory ducts and submucosal glands of tracheobronchial tissues. BPIFA1 binds to lipopolysaccharide (LPS) in nasal lavage fluid (NLF) which points to its role in the inflammatory response of the upper airways after exposure to irritants. Decreased levels of BPIFA1 occur in the NLF of smokers and people who have been exposed to reactive epoxy chemicals,

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indicating that long-term exposure to airway irritants impairs the production of BPIFA1 in the upper respiratory tract. Recombinant human BPIFA1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

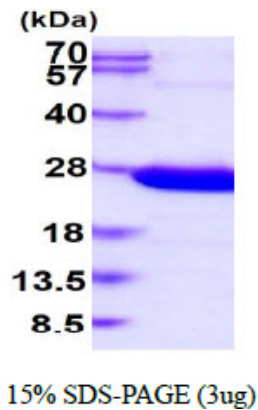
MGSSHHHHHHH SSGLVPRGSH MGSQFGGLPV PLDQTLPLNV NPALPLSPTG LAGSLTNALS NGLLSGGLLG ILENLPLLDI  
LKPGGGTS GG LGGLLGKVT SVIPGLNII DIKVTDPQLL ELGLVQSPDG HRLYVTIPLG IKLQVNTPLV GASLLRLAVK  
LDITAEILAV RDKQERHVLV LGDCTHSPGS LQISLLDGLG PLPIQGLLDS LTGILNKVLP ELVQGNVCPL VNEVLRGLDI  
TLVHDIVNML IHGLQFVIKV

## General References

Ghafouri B., et al. (2004) *Biochem Biophys Acta*. 1699:57-63.  
Bingle C D., et al. (2002) *Hum Mol Genet*. 11: 937-943.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.