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## **Recombinant human PLUNC protein**

Catalog Number: ATGP1908

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

20-256aa

#### **UniProt No.**

**O9NP55** 

#### **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**

## **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**

## **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**

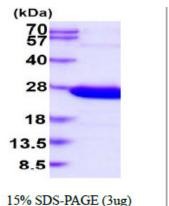
MGSSHHHHHH SSGLVPRGSH MGSQFGGLPV PLDQTLPLNV NPALPLSPTG LAGSLTNALS NGLLSGGLLG ILENLPLLDI LKPGGGTSGG LLGGLLGKVT SVIPGLNNII DIKVTDPQLL ELGLVQSPDG HRLYVTIPLG IKLQVNTPLV GASLLRLAVK LDITAEILAV RDKQERIHLV LGDCTHSPGS LQISLLDGLG PLPIQGLLDS LTGILNKVLP ELVQGNVCPL VNEVLRGLDI TLVHDIVNML IHGLQFVIKV

#### **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.

