

Product information



BPIFA1, 20-256aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1908

Full name: BPI fold-containing family A, member 1

NCBI Accession No.: NP_057667

Synonyms: bA49G10.5, LPLUNC3, LUNX, NASG, PLUNC, SPURT

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, 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.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol</p> <p>Molecular Weight: 27.1 kDa (260aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by BCA assay)</p>	<p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
--	--

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSQFGGLPV PLDQTLPLNV NPALPLSPTG LAGSLTNALS NGLLSGGLLG ILENLPLLDI LKPGGGTSGG
LLGGLLGKVT SVIPGLNNI I DIKVTDPQLL ELGLVQSPDG HRLYVTIPLG IKLQVNTPLV GASLLRLAVK LDITAEILAV RDKQERIHV
LGDC THSPGS LQISLLDGLG PLPIQGLLDS LTGILNKVLP ELVQGNVCPV VNEVLRGLDI TLVHDI VNMIL 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com