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AR50732PU-N Human PLUNC (20-256, His-tag) - Purified

Alternate names: LUNX, Lung-specific protein X, NASG, Nasopharyngeal carcinoma-related protein, Palate lung and nasal epithelium clone protein, SPURT, Secretory protein in upper respiratory tracts, Tracheal epithelium-enriched protein, Von Ebner protein Hl

Quantity: 0.5 mg

Concentration: 1 mg/ml (determined by BCA assay)

Background: 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.

Uniprot ID: Q9NP55

NCBI: NP_057667

GeneID: 51297

Species: Human

Source: E. coli

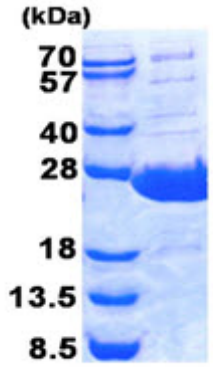
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol

Description: Recombinant human BPIFA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA 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
Molecular weight: 27.1 kDa (260aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

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

Pictures:



15% SDS-PAGE (3ug)