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**Product Data Sheet**


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Product Name: BPIFA1 Human  
 Cat. No.: GP22894  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	BPI fold-containing family A member 1; Lung-specific protein X; Nasopharyngeal carcinoma-related protein; Palate lung and nasal epithelium clone protein; Secretory protein in upper respiratory tracts; Tracheal epithelium-enriched protein; Von Ebner protein HI; BPIFA1; LUNX; NASG; PLUNC; SPURT; SPLUNC1; bA49G10.5.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQFGGLPV PLDQTLPLNV NPALPLSPTG LAGSLTNALS NGLLSGGLLG ILENLPLLDI LKPGGGTSGG LLGGLLGKVT SVIPGLNNII DIKVTDPQLL ELGLVQSPDG HRLYVTIPLG IKLQVNTPLV GASLLRLAVK LDITAEILAV RDKQERIHV LGDCTHSPGS LQISLLDGLG PLPIQGLLDS LTGILNKVLP ELVQGNVCPL VNEVLRGLDI TLVHDIVNML IHGLQFVIKV.		
Formulation	BPIFA1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl and 30% glycerol.		

**Introduction**

BPI fold containing family A Member 1 (BPIFA1) belongs to the short subfamily of PLUNC family proteins and have homology only to the Nterminal domains of BPI. BPIFA1 is a secreted protein which is expressed in the secretory ducts and submucosal glands of tracheobronchial tissues. BPIFA1 binds to LPS (lipopolysaccharide) in nasal lavage fluid (NLF) which alludes to its role in the inflammatory response of the upper airways after exposure to irritants. BPIFA1 may also serve as a potential molecular marker for detection of micrometastasis in non-small-cell lung cancer. Decreased levels of BPIFA1 are observed in the NLF of smokers and people who have been exposed to reactive epoxy chemicals, which indicates that long-term exposure to airway irritants damages the production of BPIFA1 in the upper respiratory tract.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

BPIFA1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 260 amino acids (20-256 a.a) and having a molecular mass of 27.1kDa. BPIFA1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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