

BPIFA1/LUNX Protein, Human, Recombinant

General Information

Synonyms:	Lung-specific protein X;BPI fold-containing family A member 1;SPLUNC1;Von Ebner protein HI;PLUNC1
Protein Construction:	Gln20-Val256
Species:	Human
Expression Host:	E. coli
Accession:	Q9NP55-1
Molecular Weight:	24.8 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, 10% Glycerol (pH 8.5).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Bactericidal/permeability-increasing fold containing family A, member 1 (BPIFA1) is a secretory protein found in human upper aerodigestive tract mucosa. This innate material is secreted in mucosal fluid or found in submucosal tissue in the human soft palate, lung, uvula, and nasal cavity. BPIFA1 is a critical component of the innate immune response that prevents upper airway diseases.

Reference

Tsou YA, et al. The Role of BPIFA1 in Upper Airway Microbial Infections and Correlated Diseases. Biomed Res Int. 2018 Sep 3;2018:2021890. doi: 10.1155/2018/2021890. PMID: 30255091; PMCID: PMC6140130.

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