BPIFB1 Protein, Human (HEK293, His)

Cat. No.:	HY-P76178
Synonyms:	BPI fold-containing family B member 1; VEMSGP; BPIFB1; C20orf114; LPLUNC1
Species:	Human
Source:	HEK293
Accession:	Q8TDL5 (T22-Q484)
Gene ID:	92747
Molecular Weight:	Approximately 53 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The BPIFB1 protein is suggested to potentially play a crucial role in innate immunity, particularly in the regions of the mouth, nose, and lungs, highlighting its significance in the defense against microbial threats at mucosal surfaces. Functionally, BPIFB1 is known to bind bacterial lipopolysaccharide (LPS), a key component of bacterial cell walls, and it modulates cellular responses to LPS. This interaction implies a role for BPIFB1 in regulating immune responses to bacterial infections by influencing the cellular signaling pathways triggered by LPS. The specific mechanisms by which BPIFB1 contributes to innate immunity and its precise role in mucosal defense remain areas of interest, underscoring the need for further investigation to elucidate its functions and molecular interactions in the context of immune defense in the upper respiratory and oral regions.

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