

**PRODUCT INFORMATION**

<b>Target</b>	BILF1
<b>Synonyms</b>	GPCR BILF1/BLIF
<b>Description</b>	Recombinant EBVB9 BILF1 Protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P03208
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag
<b>Molecular Characterization</b>	BILF1(Met1-Ser37) hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 29.9 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	BILF1 is a G-protein coupled receptor (GPCR) encoded by Epstein-Barr virus (EBV) and some related $\gamma$ -herpesviruses. It functions as a viral GPCR homolog, mimicking host chemokine receptors. BILF1 constitutively activates G $\alpha$ i signaling, leading to inhibition of cAMP accumulation and modulation of downstream pathways such as MAPK/ERK and NF- $\kappa$ B, thereby promoting cell survival and immune evasion. It can downregulate MHC class I molecules, reducing antigen presentation to cytotoxic T cells. Through these activities, BILF1 contributes to viral persistence and oncogenic transformation in EBV-associated malignancies.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated





Figure 1. EBVB9 BILF1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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