PRODUCT INFORMATION

Target	BILF1
Synonyms	GPCR BILF1□BLIF
Description	Recombinant EBVB9 BILF1 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P03208
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	BILF1(Met1-Ser37) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 29.9 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	BILF1 is a G-protein coupled receptor (GPCR) encoded by Epstein–Barr virus (EBV) and some related γ-herpesviruses. It functions as a viral GPCR homolog, mimicking host chemokine receptors. BILF1 constitutively activates Gαi signaling, leading to inhibition of cAMP accumulation and modulation of downstream pathways such as MAPK/ERK and NF-κB, 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.
Usage	Research use only
Conjugate	Unconjugated

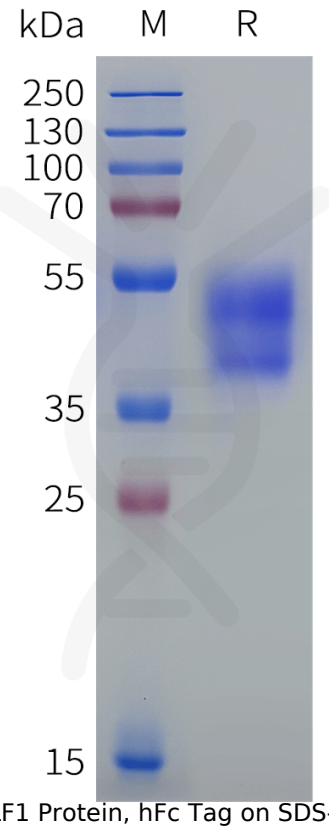

Figure 1. EBVB9 BILF1 Protein, hFc Tag on SDS-PAGE under reducing condition.