

Epstein-Barr virus (strain AG876) LMP1 Protein (His & Myc)

General Information

Synonyms:	Latent membrane protein 1;LMP-1;Protein p63;LMP1
Protein Construction:	185-371 aa
Species:	EBV
Expression Host:	E. coli
Accession:	Q1HVB3
Molecular Weight:	24.3 kDa (predicted)
AA Sequence:	YYHGQRHSDEHHHDDSLPHPQQATDDSGHESDSNSNEGRHHLLVTGAGDGPPLCSQNLGAPGGGPDNGP QDPDNTDDNGPQDPDNTDDNGPQDPDNTDDNGPQDPDNTADNGPHDPLPHNPDSAGNDGGPPNLTE EVENKGGDRGPPSMTDGGGGDPHLPTLLLTSGSGGDDDDPHGPVQLSYDD

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Acts as a CD40 functional homolog to prevent apoptosis of infected B-lymphocytes and drive their proliferation. Functions as a constitutively active tumor necrosis factor receptor that induces the activation of several signaling pathways, including those of the NF-kappa-B family. LMP1 signaling leads to up-regulation of antiapoptotic proteins and provide growth signals in latently infected cells. Interacts with host UBE2I and subsequently affects

the sumoylation state of several cellular proteins. For example, induces the sumoylation of host IRF7 thereby limiting its transcriptional activity and modulating the activation of innate immune responses. Inhibits also host IFN- α -stimulated STAT2 nuclear translocation and interferon-stimulated response element transcriptional activity by interacting with and inhibiting host TYK2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481