

Epstein-Barr virus (strain Raji) LMP1 Protein (His & SUMO)

General Information

Synonyms:	LMP-1;LMP1;Protein p63;Latent membrane protein 1
Protein Construction:	185-386 aa
Species:	EBV
Expression Host:	E. coli
Accession:	P13198
Molecular Weight:	37.0 kDa (predicted)
AA Sequence:	YYHGQRHSDEHHHDDSLPHPQQATDDSSNQSDSNSNEGRHLLLVSAGDGPPLCSQNLGAPGGGPNNGP QDPDNTDDNGPQDPDNTDDNGPHDPLPQDPDNTDDNGPQDPDNTDDNGPHDPLPHNPDSAGNDGG PPQLTEEVENKGGDQGPPLMTDGGGGHSHDSGHDGIDPHLPTLLLTSGSGGGDDDDPHGVPVQLSYYD

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:	> 90% 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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

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limiting its transcriptional activity and modulating the activation of innate immune responses. Inhibits also host IFN-alpha-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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