Transcriptional Regulator ICP27 (UL54) Human Herpesvirus 2 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcriptional regulator ICP27 (UL54), Recombinant Protein
Full Product Name	Recombinant Human herpesvirus 2 Transcriptional regulator ICP27 (UL54), partial
Product Gene Name	UL54 recombinant protein
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	54,959 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P28276
Species	Human herpesvirus 2 (strain HG52) (HHV-2) (Human herpes simplex virus 2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UL54 recombinant protein	MBS1228362 is a recombinant protein targeting UL54. Also known as Recombinant Human herpesvirus 2 Transcriptional regulator ICP27 (UL54), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of UL54 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UL54. It may not necessarily be applicable to this product.

NCBI GI #	124181
NCBI Accession #	P28276.1
UniProt Primary Accession #	P28276
NCBI Official Full Name	mRNA export factor
UniProt Protein Name	mRNA export factor
UniProt Synonym Protein Names	Immediate-early protein IE63; Infected cell protein 27; ICP27; VMW63
Protein Family	mRNA export factor
UniProt Gene Name	UL54
UniProt Synonym Gene Names	ICP27

UniProt Comments for UL54	Multifunctional regulator of the expression of viral genes that contributes to the shutoff of host protein synthesis and mediates nuclear export of viral intronless mRNAs. Early in infection, this immediate early (EI) protein mediates the inhibition of cellular splicing. This results in the accumulation of unprocessed 3'end pre-mRNAs which can't be exported from the nucleus. Cellular protein synthesis is thereby shut off early after virus infection. Later in the infection, it helps recruit cellular RNA polymerase II to viral replication sites and promotes the nuclear export of viral intronless mRNAs by interacting with mRNAs and host NXF1/TAP. ICP27 binds to NUP62 which may provide facilitated viral mRNA export and may compete with some host cell transport receptors for binding and inhibit cellular nucleocytoplasmic transport pathways. Also stimulates translation of viral transcripts. Repression of host gene expression blocks the cell cycle at the G1 phase and prevents apoptosis (). Seems to silence the 3' splice site of the promyelocytic leukemia (PML) intron 7a, thereby switching PML isoforms from PML-II to PML-V. This could be linked to the accelerated mRNA export induced by ICP27 which might not provide sufficient time for PML pre-mRNA to be spliced in the nucleus.
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