Regulatory Protein E2 (E2) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Regulatory protein E2 (E2), Recombinant Protein
Full Product Name	Recombinant Regulatory protein E2 (E2)
Product Gene Name	E2 recombinant protein
Product Synonym Gene Name	E2
Sequence	METLATRLDV CQERLLDLYE KDSNKLEDQI EHWKCIRLEC ALQYKAREMG YKVLQHQALP ALAVSKGKGH KAIELQLALE TLQKTVYSTE PWTLQDTCLE RWNAPPTGCL KRRGQTVDVI FDGHQDNTMQ YVMWGDIYYQ NCDGEGWTKV CSNIDAMGIY YMDAEHKVYY VDFKKEASKY GEYGQWEVRM GSSIIFSPAS VSSTEEALSI SSTGTAEHTR PANSTPRTDN STKAIPCTPP PRKRARVYST DQQPHSTSDP VGCDNDRHIS DDNNKNQGRH TSSGDTTPIV HFKGEPNTLK CFRQRIQKYK HLFEQASSTW HWACVPGTTK NRGIVTLTYS SVEQRQQFLV TVRIPPSISM SLGVMSL
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	41,690 Da
Sequence Positions	1-367, Full length protein
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 Q81021
Species	Human papillomavirus type 54
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for E2 recombinant protein	MBS1319473 is a recombinant protein targeting E2. Also known as Recombinant Regulatory protein E2 (E2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of E2 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 E2. It may not necessarily be applicable to this product.

NCBI GI #	9628441
NCBI GeneID	1497435
NCBI Accession #	NP_043291.1
UniProt Primary Accession #	Q81021

UniProt Related Accession #	AAA79190
GenBank Nucleotide #	NC_001676.1
NCBI Official Full Name	regulatory protein
NCBI Official Symbol	E2
UniProt Protein Name	Regulatory protein E2
Protein Family	Regulatory protein
UniProt Gene Name	E2
NCBI Protein Information	regulatory protein
UniProt Comments for E2	Plays a role in the initiation of viral DNA replication. A dimer of E2 interacts with a dimer of E1 in order to improve specificity of E1 DNA binding activity. Once the complex recognizes and binds DNA at specific sites, the E2 dimer is removed from DNA. E2 also regulates viral transcription through binding to the E2RE response element (5'-ACCNNNNNNGGT-3') present in multiple copies in the regulatory regions of the viral genome. Activates or represses transcription depending on E2RE's position with regards to proximal promoter elements including the TATA-box. Repression occurs by sterically hindering the assembly of the transcription initiation complex.
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