Replication Protein E1 (E1) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Replication protein E1 (E1), Recombinant Protein
Full Product Name	Recombinant Replication protein E1 (E1), partial
Product Gene Name	E1 recombinant protein
Product Synonym Gene Name	E1
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	73,065 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 Q80950
Species	Human papillomavirus type 61
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for E1 recombinant protein	MBS1305268 is a recombinant protein targeting E1. Also known as Recombinant Replication protein E1 (E1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of E1 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 E1. It may not necessarily be applicable to this product.

NCBI GI #	9628577
NCBI GeneID	1403314
NCBI Accession #	NP_043446.1
UniProt Primary Accession #	Q80950
UniProt Related Accession #	AAA79494
GenBank Nucleotide #	NC_001694.1
NCBI Official Full Name	replication protein E1
NCBI Official Symbol	E1
UniProt Protein Name	Replication protein E1

UniProt Synonym Protein Names	ATP-dependent helicase E1
Protein Family	Conotoxin
UniProt Gene Name	E1
NCBI Protein Information	replication protein E1
UniProt Comments for E1	ATP-dependent DNA helicase required for initiation of viral DNA replication. It forms a complex with the viral E2 protein. The E1-E2 complex binds to the replication origin which contains binding sites for both proteins. During the initial step, a dimer of E1 interacts with a dimer of protein E2 leading to a complex that binds the viral origin of replication with high specificity. Then, a second dimer of E1 displaces the E2 dimer in an ATP-dependent manner to form the E1 tetramer. Following this, two E1 monomers are added to each half of the site, which results in the formation of two E1 trimers on the viral ori. Subsequently, two hexamers will be created. The double hexamer acts as a bi-directional helicase machinery and unwinds the viral DNA and then recruits the host DNA polymerase to start replication.
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