Early E1A 25 Kda Protein Canine Adenovirus Serotype 1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Early E1A 25 kDa protein, Recombinant Protein
Full Product Name	Recombinant Canine adenovirus serotype 1 Early E1A 25 kDa protein
Sequence	MKLTLEPAPR CLHEYVSQLL EDWQPECLSC EYSHGGSSPP SLHDLFDLEL ENSRSPSPLL CDWCAEADSE STISTETDVG FTLNTPPVSP LPSYSTSPAS IPEDMLLCLE EMPTFDDGDE VRSATTSFEH WENNFDPNVG SFFGCLRCAY YQEQGENSIC GLCYLKALAE EPVDADAGED DEVIFVSAKP GSRKRSAVTS RGSVESSKRP CLPEPEQTEP LDLSLKPRPQ
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	25,362 Da
Sequence Positions	1-230, 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 Q65941
Species	Canine adenovirus serotype 1 (strain CLL) (CAdV-1) (Canine adenovirus 1 (strain CLL))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Early E1A 25 kDa protein recombinant protein	MBS1440678 is a recombinant protein targeting Early E1A 25 kDa protein. Also known as Recombinant Canine adenovirus serotype 1 Early E1A 25 kDa protein. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Early E1A 25 kDa protein 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 Early E1A 25 kDa protein. It may not necessarily be applicable to this product.

NCBI GI #	2492690
NCBI Accession #	Q65941.1
UniProt Primary Accession #	Q65941
NCBI Official Full Name	Early E1A protein
UniProt Protein Name	Early E1A protein
UniProt Synonym Protein Names	Early E1A 25 kDa protein

UniProt Comments for Early E1A 25 kDa protein	Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. E1A protein has both transforming and trans-activating activities. Induces the disassembly of the E2F1 transcription factor from RB1 by direct competition for the same binding site on RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes and of the E2 region of the adenoviral genome. Release of E2F1 leads to the ARF-mediated inhibition of MDM2 and causes TP53/p53 to accumulate because it is not targeted for degradation by MDM2-mediated ubiquitination anymore. This increase in TP53, in turn, would arrest the cell proliferation and direct its death but this effect is counteracted by the viral protein E1B-55K. Inactivation of the ability of RB1 to arrest the cell cycle is critical for cellular transformation, uncontrolled cellular growth and proliferation induced by viral infection. Interaction with RBX1 and CUL1 inhibits ubiquitination of the proteins targeted by SCF(FBXW7) ubiquitin ligase complex, and may be linked to unregulated host cell proliferation. The tumorigenesis-restraining activity of E1A may be related to the disruption of the host CtBP-CtIP complex through the CtBP binding motif.
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