Protein Rev (rev) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein Rev (rev), Recombinant Protein
Full Product Name	Recombinant Human immunodeficiency virus type 1 group M subtype C Protein Rev (rev)
Product Gene Name	rev recombinant protein
Sequence	MAGRSGDSDE ALLQAVRIIK ILYQSNPYPK PEGTRQARRN RRRRWRARQR QIHSISERIL STCVGRPAEP VPFQLPPIER LNINCSESGG TSGTQQPQGN TERVGNP
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	12,061 Da
Sequence Positions	1-107, 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 O12162
Species	Human immunodeficiency virus type 1 group M subtype C (isolate 92BR025) (HIV-1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rev recombinant protein	MBS1251271 is a recombinant protein targeting rev. Also known as Recombinant Human immunodeficiency virus type 1 group M subtype C Protein Rev (rev). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rev 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 rev. It may not necessarily be applicable to this product.

NCBI GI #	82308885
NCBI Accession #	O12162.1
UniProt Primary Accession #	O12162
NCBI Official Full Name	Protein Rev
UniProt Protein Name	Protein Rev
UniProt Synonym Protein Names	ART/TRS
Protein Family	Homeobox-leucine zipper protein

UniProt Gene Name	rev
UniProt Comments for rev	Escorts unspliced or incompletely spliced viral pre-mRNAs (late transcripts) out of the nucleus of infected cells. These pre-mRNAs carry a recognition sequence called Rev responsive element (RRE) located in the env gene, that is not present in fully spliced viral mRNAs (early transcripts). This function is essential since most viral proteins are translated from unspliced or partially spliced pre-mRNAs which cannot exit the nucleus by the pathway used by fully processed cellular mRNAs. Rev itself is translated from a fully spliced mRNA that readily exits the nucleus. Rev's nuclear localization signal (NLS) binds directly to KPNB1/Importin beta-1 without previous binding to KPNA1/Importin alpha-1. KPNB1 binds to the GDP bound form of RAN (Ran-GDP) and targets Rev to the nucleus. In the nucleus, the conversion from Ran-GDP to Ran-GTP dissociates Rev from KPNB1 and allows Rev's binding to the RRE in viral pre-mRNAs. Rev multimerization on the RRE via cooperative assembly exposes its nuclear export signal (NES) to the surface. Rev can then form a complex with XPO1/CRM1 and Ran-GTP, leading to nuclear export of the complex. Conversion from Ran-GTP to Ran-GDP mediates dissociation of the Rev/RRE/XPO1/RAN complex, so that Rev can return to the nucleus for a subsequent round of export. Beside KPNB1, also seems to interact with TNPO1/Transportin-1, RANBP5/IPO5 and IPO7/RANBP7 for nuclear import. The nucleoporin-like HRB/RIP is an essential cofactor that probably indirectly interacts with Rev to release HIV RNAs from the perinuclear region to the cytoplasm.
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