Uvrabc System Protein B (uvrB) Clostridium Botulinum Recombinant Protein

PRODUCT OVERVIEW

Product Name	UvrABC system protein B (uvrB), Recombinant Protein
Full Product Name	Recombinant Clostridium botulinum UvrABC system protein B (uvrB), partial
Product Gene Name	uvrB 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	76,144 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 B1L280
Species	Clostridium botulinum (strain Loch Maree / Type A3)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for uvrB recombinant protein	MBS1155083 is a recombinant protein targeting uvrB. Also known as Recombinant Clostridium botulinum UvrABC system protein B (uvrB), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of uvrB 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 uvrB. It may not necessarily be applicable to this product.

NCBI GI #	501312169
NCBI Accession #	WP_012343804.1
UniProt Primary Accession #	B1L280
GenBank Nucleotide #	WP_012343804.1
NCBI Official Full Name	UvrABC system protein B
UniProt Protein Name	UvrABC system protein B
UniProt Synonym Protein Names	Excinuclease ABC subunit B
Protein Family	UvrABC system protein
UniProt Gene Name	uvrB
UniProt Synonym Gene Names	Protein UvrB

UniProt Comments for uvrB	The UvrABC repair system catalyzes the recognition and processing of DNA lesions. A damage recognition complex composed of 2 UvrA and 2 UvrB subunits scans DNA for abnormalities. Upon binding of the UvrA2B2 complex to a putative damaged site, the DNA wraps around one UvrB monomer. DNA wrap is dependent on ATP binding by UvrB and probably causes local melting of the DNA helix, facilitating insertion of UvrB beta-hairpin between the DNA strands. Then UvrB probes one DNA strand for the presence of a lesion. If a lesion is found the UvrA subunits dissociate and the UvrB-DNA preincision complex is formed. This complex is subsequently bound by UvrC and the second UvrB is released. If no lesion is found, the DNA wraps around the other UvrB subunit that will check the other stand for damage.
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