Toxin Rele (relE) Mycobacterium Tuberculosis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Toxin RelE (relE), Recombinant Protein
Full Product Name	Recombinant Mycobacterium tuberculosis Toxin RelE (relE)
Product Gene Name	relE recombinant protein
Sequence	MSDDHPYHVA ITATAARDLQ RLPEKIAAAC VEFVFGPLLN NPHRLGKPLR NDLEGLHSAR RGDYRVVYAI DDGHHRVEII HIARRSASYR MNPCRPR
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	11,064 Da
Sequence Positions	1-97, 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 O50461
Species	Mycobacterium tuberculosis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for relE recombinant protein	MBS1160886 is a recombinant protein targeting relE. Also known as Recombinant Mycobacterium tuberculosis Toxin RelE (relE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of relE 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 relE. It may not necessarily be applicable to this product.

NCBI GI #	15608386
NCBI GeneID	887099
NCBI Accession #	NP_215762.1
UniProt Primary Accession #	O50461
UniProt Secondary Accession #	L0T6B0
UniProt Related Accession #	O50461
GenBank Nucleotide #	NC_000962.3

NCBI Official Full Name	toxin RelE
NCBI Official Symbol	relE
NCBI Official Synonym Symbols	relE1
UniProt Protein Name	Toxin RelE
UniProt Synonym Protein Names	Putative endoribonuclease RelE
Protein Family	mRNA interferase
UniProt Gene Name	relE
UniProt Synonym Gene Names	relE1
NCBI Protein Information	toxin RelE
UniProt Comments for relE	Toxic component of a type II toxin-antitoxin (TA) system. Has RNase activity (). Overexpression in M.tuberculosis or M.smegmatis inhibits colony formation in a bacteriostatic rather than bacteriocidal fashion. Its toxic effect is neutralized by coexpression with cognate antitoxin RelB (shown only for M.smegmatis).
Research Articles on relE	**1.** examined the in vivo mechanism of the RelE Mtb toxin protein, the impact of RelE Mtb on M. tuberculosis physiology and the environmental conditions that regulate all three rel Mtb modules
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