Secreted Effector Protein Pipb2 (pipB2) Salmonella Choleraesuis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Secreted effector protein pipB2 (pipB2), Recombinant Protein
Full Product Name	Recombinant Salmonella choleraesuis Secreted effector protein pipB2 (pipB2)
Product Gene Name	pipB2 recombinant protein
Product Synonym Gene Name	pipB2
Sequence	MQRSLDSLAG MATSAFGAGT SAAMRQATSP KTILEYIINF FTCGGIRRRN ETQYQELIET MAETLKSTMP DRGAPLPENI ILDDMDGCRV EFNLPGENNE AGQVIVRVSK GDHSETREIP LVSFEKICRA LLFRCEFSLP QDSVILTAQG GMNLKGAVLT GANLTAENLC DADLSGANLE GAVLFMADCE GANFKGANLS GTSLGDSNFK NACLEDSIMC GATLDHANLT GANLQHASLL GCSMIECNCS GANMDHTNLS GATLIRADMS GATLQGATIM AAIMEDAVLT RANLRKASFI STNLDGADLA EANLNNTCFK DCTLTHLRTE DATMSTSTQT LFNEFYSENI
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	37,338 Da
Sequence Positions	1-350, 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 Q57KZ6
Species	Salmonella choleraesuis (strain SC-B67)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pipB2 recombinant protein	MBS1335685 is a recombinant protein targeting pipB2. Also known as Recombinant Salmonella choleraesuis Secreted effector protein pipB2 (pipB2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pipB2 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 pipB2. It may not necessarily be applicable to this product.

NCBI GI #	486185686
NCBI Accession #	WP_001540738.1
UniProt Primary Accession #	Q57KZ6
GenBank Nucleotide #	WP_001540738.1
NCBI Official Full Name	SPI-2 type III secretion system effector PipB2

UniProt Protein Name	Secreted effector protein PipB2
UniProt Synonym Protein Names	Type III effector PipB2
Protein Family	Secreted effector protein
UniProt Gene Name	pipB2
UniProt Comments for pipB2	Effector proteins function to alter host cell physiology and promote bacterial survival in host tissues. Involved in the reorganization of late endosome/lysosome (LE/Lys) compartments in mammalian cells. Necessary and sufficient to link kinesin-1 onto the Salmonella-containing vacuole (SCV) membrane. Required for centrifugal extension of lysosomal glycoprotein-rich membrane tubules, known as Salmonella-induced filaments (Sifs), away from the SCV and toward the cell periphery. Required for virulence, but not for intracellular survival and replication in phagocytic cells ().
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