Alanine and Proline-Rich Secreted Protein Apa (apa) Mycobacterium Tuberculosis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alanine and proline-rich secreted protein apa (apa), Recombinant Protein
Full Product Name	Recombinant Mycobacterium tuberculosis Alanine and proline-rich secreted protein apa (apa)
Product Gene Name	apa recombinant protein
Product Synonym Gene Name	apa
Sequence	DPEPAPPVPT TAASPPSTAA APPAPATPVA PPPPAAANTP NAQPGDPNAA PPPADPNAPP PPVIAPNAPQ PVRIDNPVGG FSFALPAGWV ESDAAHFDYG SALLSKTTGD PPFPGQPPPV ANDTRIVLGR LDQKLYASAE ATDSKAAARL GSDMGEFYMP YPGTRINQET VSLDANGVSG SASYYEVKFS DPSKPNGQIW TGVIGSPAAN APDAGPPQRW FVVWLGTANN PVDKGAAKAL AESIRPLVAP PPAPAPAPAE PAPAPAPAGE VAPTPTTPTP QRTLPA
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	32,721 Da
Sequence Positions	40-325aa; Full Length of Mature 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 P9WIR7
Species	Mycobacterium tuberculosis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for apa recombinant protein	MBS1342748 is a recombinant protein targeting apa. Also known as Recombinant Mycobacterium tuberculosis Alanine and proline-rich secreted protein apa (apa). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of apa 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 apa. It may not necessarily be applicable to this product.

NCBI GI #	490008884
NCBI Accession #	WP_003911690.1
UniProt Primary Accession #	P9WIR7
UniProt Secondary Accession #	O08062; Q50906; L0T9G7

GenBank Nucleotide #	WP_003911690.1
NCBI Official Full Name	alanine and proline-rich secreted protein Apa
UniProt Protein Name	Alanine and proline-rich secreted protein Apa
UniProt Synonym Protein Names	45 kDa glycoprotein; 45/47 kDa antigen
Protein Family	Alanine and proline-rich secreted protein
UniProt Gene Name	apa
UniProt Synonym Gene Names	modD
UniProt Comments for apa	A potent antigen in animals immunized with live bacteria, it induces a strong delayed-type hypersensitivity (DTH) in immunized animals (PubMed:10531201). Elicits a mostly Th1 type of T-cell response in healthy humans; induces IFN-gamma production from CD4+ and CD8+ cells (PubMed:12654810). Functions as an adhesin, binds to mouse macrophages via mannose residues (PubMed:10531201, PubMed:25359607). Might interact via host CD209 (PubMed:16092920).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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