Phosphothreonine Lyase Ospf (ospF) Shigella Boydii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphothreonine lyase ospF (ospF), Recombinant Protein
Full Product Name	Recombinant Shigella boydii Phosphothreonine lyase ospF (ospF)
Product Gene Name	ospF recombinant protein
Product Synonym Gene Name	ospF
Sequence	PQMLSANERL KNNFNILYNQ IRQYPAYYFK VASNVPTYSD ICQFFSVMYQ GFQIVNHSGD VFIHACRENP QSKGDFVGDK FHISIAREQV PLAFQILSGL LFSEDSPIDK WKITDMNRVS QQSRVGIGAQ FTLYVKSDQE CSQYSALLLH KIRQFIMCLE SNLLRSKIAP
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	19,585 Da
Sequence Positions	1-170, 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 Q2ET28
Species	Shigella boydii
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ospF recombinant protein	MBS1345537 is a recombinant protein targeting ospF. Also known as Recombinant Shigella boydii Phosphothreonine lyase ospF (ospF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ospF 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 ospF. It may not necessarily be applicable to this product.

NCBI GI #	122537326
NCBI Accession #	Q2ET28.1
UniProt Primary Accession #	Q2ET28
NCBI Official Full Name	Phosphothreonine lyase OspF
UniProt Protein Name	Phosphothreonine lyase OspF
UniProt Synonym Protein Names	Effector protein OspF

Protein Family	Phosphothreonine lyase
UniProt Gene Name	ospF
UniProt Comments for ospF	Catalyzes the removal of the phosphate group from the phosphothreonine in the mitogen-activated protein kinases such as MAPK2/ERK2, MAPK3/ERK1, MAPK8 and MAPK14 in an irreversible reaction, thus preventing the downstream phosphorylation of histone H3. This epigenetic modification results in inhibition of the transcription of a specific subset of proinflammatory genes, and ultimately to a reduced immune response against the invading pathogen. The diminished immune response enhances the bacterium's ability to disseminate and multiply within the host ().
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