Tyrosine-Protein Kinase Cpsd (cpsD) Streptococcus Agalactiae Serotype V Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tyrosine-protein kinase CpsD (cpsD), Recombinant Protein
Full Product Name	Recombinant Streptococcus agalactiae serotype V Tyrosine-protein kinase CpsD (cpsD)
Product Gene Name	cpsD recombinant protein
Product Synonym Gene Name	cpsD
Sequence	MTRLEIVDSK LRQAKKTEEY FNAIRTNIQF SGKENKILAI TSVREGEGKS TASTSLALSL AQAGFKTLLI DADTRNSVMS GTFKATGTIK GLTNYLSGNA DLGDIICETN VPRLMVVPSG KVPPNPTALL QNAYFNKMIE AIKNIFDYII IDTPPIGLVV DAAIIANACD GFILVTQAGR IKRNYVEKAK EQMEQSGSKF LGIILNKVNE SVATYGDYGN YGKRDRKRK
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	25,064 Da
Sequence Positions	1-229, 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 Q9AFI1
Species	Streptococcus agalactiae serotype V
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cpsD recombinant protein	MBS1424127 is a recombinant protein targeting cpsD. Also known as Recombinant Streptococcus agalactiae serotype V Tyrosine-protein kinase CpsD (cpsD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cpsD 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 cpsD. It may not necessarily be applicable to this product.

NCBI GI #	22537330
NCBI GeneID	1013979
NCBI Accession #	NP_688181.1
UniProt Primary Accession #	Q9AFI1

UniProt Related Accession #	Q9AFI1
GenBank Nucleotide #	NC_004116.1
NCBI Official Full Name	cpsD protein
NCBI Official Symbol	cpsD
UniProt Protein Name	Tyrosine-protein kinase CpsD
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	cpsD
NCBI Protein Information	cpsD protein
UniProt Comments for cpsD	Involved in the regulation of capsular polysaccharide biosynthesis. Autophosphorylation of CpsD attenuates its activity and reduces the level of encapsulation. May be part of a complex that directs the coordinated polymerization and export to the cell surface of the capsular polysaccharide ().
Research Articles on cpsD	**1.** Data indicate that the CpsABCD operon proteins form a system that modulates termination of capsule elongation.
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