M-Phase Inducer Phosphatase 2 (CDC25B) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	M-phase inducer phosphatase 2 (Cdc25b), Recombinant Protein
Full Product Name	Recombinant Rat M-phase inducer phosphatase 2 (Cdc25b)
Product Gene Name	Cdc25b recombinant protein
Sequence	MEVPPQKSAP GSALSTARVL GGIQRPRHLS GFGFGSDGLL GSPERAASSS PVTTLTQTMY NLAGLGSETP KTQVGSLSFQ NRLTDLSLSR RTSECSLSSE SSESSDAGLC MDSPSPMDPQ TAERTFEQAI QAASRVIQKM QFTIKASVFA SEAAGHSPVL QNITNSQALD SWEKDEAGYR AASSPGEDKE NDGYIFKMPQ KLPHSSSARA LAEWASRREA FTQRPSSAPD LMCLTTDGKM DVEEASPVAQ SSSLTPVERA CEEDDGFVDI LESDLKDDDM VPAGMENLIS APLVKKLDKE EEQDLIMFSK CQRLFRSPSM PCSVIRPILK RLERPHDRDV PVLSKRRKSG TPLEEQQLEE PKARVFRSKS LCHEIESILD SDHRGLIGDY SKAFLLQTVD GKHQDLKYIS PETMVALLTG KFSNIVEKFV IVDCRYPYEY EGGHIKNAVN LPLEPDAETF LLKHPITPCN LDKRIILIFH CEFSSERGPR MCRFIRERDR AANDYPSLYY PEMYILKGGY KEFFPQHPNF CEPQDYRPMN HAAFRDELRN FRLKTRSWAG ERSTTQLCSR LQDQ
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	64,287 Da
Sequence Positions	1-574, 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 P48966
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cdc25b recombinant protein	CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals. The protein is nuclear in the M and G1 phases of the cell cycle and moves to the cytoplasm during S and G2. CDC25B has oncogenic properties, although its role in tumor formation has not been determined. Multiple transcript variants for this gene exist.
Other Notes	Small volumes of Cdc25b 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.
Searchable Terms for Cdc25b purchase	MBS966269 is a recombinant protein targeting Cdc25b. Also known as Recombinant Rat M-phase inducer phosphatase 2 (Cdc25b). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cdc25b. It may not necessarily be applicable to this product.

NCBI GI #	19424260
NCBI GeneID	171103
NCBI Accession #	NP_598256.1
UniProt Primary Accession #	P48966
UniProt Related Accession #	P48966
GenBank Nucleotide #	NM_133572.1
NCBI Official Full Name	M-phase inducer phosphatase 2
NCBI Official Synonym Full Names	cell division cycle 25B
NCBI Official Symbol	Cdc25b
UniProt Protein Name	M-phase inducer phosphatase 2
UniProt Synonym Protein Names	Dual specificity phosphatase Cdc25B
UniProt Gene Name	Cdc25b
NCBI Protein Information	M-phase inducer phosphatase 2
NCBI Summary for Cdc25b	phosphatase; involved in the start of the cell cycle [RGD, Feb 2006]
UniProt Comments for Cdc25b	Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Directly dephosphorylates CDK1 and stimulates its kinase activity ().
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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