Methylphosphate Capping Enzyme (MEPCE) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	methylphosphate capping enzyme (MEPCE), ELISA Kit
Full Product Name	Mouse 7SK snRNA methylphosphate capping enzyme, MEPCE ELISA Kit
Product Gene Name	MEPCE elisa kit
Product Synonym Names	Mouse 7SK snRNA methylphosphate capping enzyme (MEPCE) ELISA kit; BCDIN3; FLJ20257; 7SK snRNA methylphosphate capping enzyme; bin3; bicoid-interacting 3; homolog; methylphosphate capping enzyme
Species Reactivity	Mouse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	72,050 Da
3D Structure	ModBase 3D Structure for Q8K3A9
Related Product Information for MEPCE elisa kit	MBS9318135 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the methylphosphate capping enzyme (MEPCE) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MEPCE. The ELISA analytical biochemical technique of the MBS9318135 kit is based on MEPCE antibody-MEPCE antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MEPCE antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MEPCE. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of MEPCE elisa kit 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 MEPCE. It may not necessarily be applicable to this product.

NCBI GI #	119672920
NCBI GeneID	231803
NCBI Accession #	NP_659162.3
UniProt Primary Accession #	Q8K3A9
UniProt Secondary Accession #	Q2YFS5; Q3U465; Q3UT64; Q91W35
UniProt Related Accession #	Q8K3A9
GenBank Nucleotide #	NM_144913.3
NCBI Official Full Name	7SK snRNA methylphosphate capping enzyme
NCBI Official Synonym Full Names	methylphosphate capping enzyme
NCBI Official Symbol	Mepce
NCBI Official Synonym Symbols	Bcdin3; D5Wsu46e
UniProt Protein Name	7SK snRNA methylphosphate capping enzyme
Protein Family	7SK snRNA methylphosphate capping enzyme

UniProt Gene Name	Mepce
UniProt Synonym Gene Names	Bcdin3; Bipl1; D5Wsu46e; MePCE
UniProt Entry Name	MEPCE_MOUSE
NCBI Protein Information	7SK snRNA methylphosphate capping enzyme; bin3, bicoid-interacting 3, homolog
UniProt Comments for MEPCE	BCDIN3: a CDK9-associated enzyme that forms the distinctive gamma-methylphosphate cap structure of 7SK, a noncoding RNA that regulates CDK9 activity. An adenosyl-L-methionine-dependent methyltransferase that adds a methylphosphate cap at the 5'-end of 7SK snRNA, leading to its stabilization. Component of the 7SK snRNP complex that contains P-TEFb (composed of CDK9 and CCNT1), HEXIM1, HEXIM2, BCDIN3, SART3 proteins and 7SK and U6 snRNAs. Expressed in chronic myeloid leukemia cells, adrenal gland, brain, cerebellum, kidney, lung, mammary gland and testis. Weakly or not expressed in other tissues. Contains a Bin3 domain found in a number of protein methyltransferases that modify RNA-binding proteins. Protein type: RNA processing; EC 2.1.1.; EC 2.1.1.-; Transcription regulation; Methyltransferase Molecular Function: methyltransferase activity; monomethylamine methyltransferase activity; trimethylamine methyltransferase activity; tRNA (cytosine)-methyltransferase activity; RNA methyltransferase activity; rRNA (cytosine-C5-967)-methyltransferase activity; rRNA (uridine) methyltransferase activity; N-methyltransferase activity; tRNA (guanine) methyltransferase activity; rRNA (adenine-N6,N6-)-dimethyltransferase activity; selenocysteine methyltransferase activity; arginine N-methyltransferase activity; protein-arginine N-methyltransferase activity; methanol-specific methylcobalamin:coenzyme M methyltransferase activity; tRNA (guanine-N2-)-methyltransferase activity; dimethylamine methyltransferase activity; protein methyltransferase activity; 2-polyprenyl-6-methoxy-1,4-benzoquinone methyltransferase activity; transferase activity; hydroxyneurosporene-O-methyltransferase activity; rRNA (uridine-2'-O-)-methyltransferase activity; tRNA (uracil) methyltransferase activity; rRNA (adenine) methyltransferase activity; C-methyltransferase activity; cobalt-precorrin-6B C5-methyltransferase activity; cobalt-precorrin-3 C17-methyltransferase activity; 1-phenanthrol methyltransferase activity; S-adenosylmethionine-dependent methyltransferase activity; S-methyltransferase activity; lysine N-methyltransferase activity; DNA-methyltransferase activity; tRNA (cytosine-5-)-methyltransferase activity; C-terminal protein carboxyl methyltransferase activity; tRNA (adenine)-methyltransferase activity; rRNA (cytosine) methyltransferase activity; cobalt-precorrin-7 C15-methyltransferase activity; protein-arginine N5-methyltransferase activity; rRNA methyltransferase activity; protein-leucine O-methyltransferase activity; demethylmenaquinone methyltransferase activity; rRNA (adenine-N6-)-methyltransferase activity; tRNA methyltransferase activity; rRNA (guanine) methyltransferase activity; methylarsonite methyltransferase activity; mRNA methyltransferase activity; methylamine-specific methylcobalamin:coenzyme M methyltransferase activity; tRNA (guanine-N1-)-methyltransferase activity; cobalt-precorrin-5B C1-methyltransferase activity; protein-lysine N-methyltransferase activity; O-methyltransferase activity; tRNA (adenine-N1-)-methyltransferase activity; tRNA (adenine-57, 58-N(1)-) methyltransferase activity Biological Process: methylation; snRNA metabolic process; snRNA modification; RNA methylation; negative regulation of transcription from RNA polymerase II promoter
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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