Recombinant Mouse Mepce Protein, Myc/DDK-tagged

Cat. No. Mepce-4034M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length methylphosphate capping enzyme (Mepce), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	S-adenosyl-L-methionine-dependent methyltransferase that adds a methylphosphate cap at the 5'-end of 7SK snRNA (7SK RNA), leading to stabilize it. Also has a non-enzymatic function as part of the 7SK RNP complex: the 7SK RNP complex sequesters the positive transcription elongation factor b (P-TEFb) in a large inactive 7SK RNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation. The 7SK RNP complex also promotes snRNA gene transcription by RNA polymerase II via interaction with the little elongation complex (LEC). In the 7SK RNP complex, MEPCE is required to stabilize 7SK RNA and facilitate the assembly of 7SK RNP complex. MEPCE has a non-enzymatic function in the 7SK RNP complex; it has a non-enzymatic function; interaction with LARP7 within the 7SK RNP complex occluding its catalytic center.
Molecular Mass	72.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Mepce methylphosphate capping enzyme [Mus musculus (house mouse)]
Official Symbol	Mepce
Synonyms	MEPCE; methylphosphate capping enzyme; 7SK snRNA methylphosphate capping enzyme; bin3, bicoid-interacting 3, homolog; Bcdin3; D5Wsu46e; MGC28888; MGC30590
Gene ID	231803
mRNA Refseq	NM_144913
Protein Refseq	NP_659162
UniProt ID	Q8K3A9

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