

Product datasheet for **TP505053**

Dcps (NM_027030) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse decapping enzyme, scavenger (Dcps), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205053 protein sequence Red =Cloning site Green =Tags(s)

MADTAPQLKRKREQEAEAEATPSTEEKEAGVGNNGTSAPVRLPFSGFRVQKVLRESARDKIIFLHGKVNED
SGDTHGEDAVVILEKTPFQVEHVAQLLTGSPCLKLQFSNDIYSTYNLFPPRHLSDIKTTWYPATEKHLQ
KVMRQDLRLIRETGDDYRTITLPYLESQSLSIQWVYNILDKKAEADRVFENPDPSDGFVLIPDLKWNQQ
QLDDLYLIAICHRRGIRSLRDLTPEHLPLLRNLRREGQEAILKRYQVTGDRLRVYLHYLPSYYHLHVHFT
ALGFEAPGSGVERAHLAQQVIENLECDPKHYQQRTLTFALRTDDPLLQLLQKAQQERN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	39 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_081306
Locus ID:	69305
UniProt ID:	Q9DAR7



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RefSeq Size: 1194

Cytogenetics: 9 A4

RefSeq ORF: 1017

Synonyms: 1700001E16Rik; AA408441

Summary: Decapping scavenger enzyme that catalyzes the cleavage of a residual cap structure following the degradation of mRNAs by the 3'->5' exosome-mediated mRNA decay pathway. Hydrolyzes cap analog structures like 7-methylguanosine nucleoside triphosphate (m7GpppG) with up to 10 nucleotide substrates (small capped oligoribonucleotides) and specifically releases 5'-phosphorylated RNA fragments and 7-methylguanosine monophosphate (m7GMP). Cleaves cap analog structures like tri-methyl guanosine nucleoside triphosphate (m3(2,2,7)GpppG) with very poor efficiency. Does not hydrolyze unmethylated cap analog (GpppG) and shows no decapping activity on intact m7GpppG-capped mRNA molecules longer than 25 nucleotides. Does not hydrolyze 7-methylguanosine diphosphate (m7GDP) to m7GMP. May also play a role in the 5'->3' mRNA decay pathway; m7GDP, the downstream product released by the 5'->3' mRNA mediated decapping activity, may be also converted by DCPS to m7GMP. Binds to m7GpppG and strongly to m7GDP. Plays a role in first intron splicing of pre-mRNAs. Inhibits activation-induced cell death.[UniProtKB/Swiss-Prot Function]