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Product datasheet for TP509382

Pde12 (NM_178668) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phosphodiesterase 12 (Pde12), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209382 protein sequence Red=Cloning site Green=Tags(s) MWRLPGRSALRGVRSVVERRSRAEAGTHEAVRAMERAVVRCVPSEPKLSLSFALADGSHKNMQRDQSEP L GRALSRIATNALKGHAKVAAAKKSRKNRAHSSGGAACEATGPEPVATCEPVVKLYYREEAVAEDVLNVDA WQDGAVLQIGDVKYKVERNPPTFTELQLPRYIMAGFPVCPKLGVEFGDPASSVFRWYKEVKPGAAEPGDS GPASSSHSSQPSAWIETGVDERVYTPCNADIGLRLRLHCTPGNGQRFGPSRELESLCPVEAGPGTCTFDH RHLYTKKVTEDSFIRTVSYNILADTYAQTEFSRTVLYPYCAPYALELDYRQNLIQKELTGYNADLICLQE VDRAVFSDSLVPALEAFGLEGVFRIKQHEGLATFYRKSKFRLLSQHDISFQEALKSDPLHKELLEKLALN PLAQEKVLQRSSVLQISVLQSTTDSSKKICVANTHLYWHPKGGYIRLIQMEVALVHIRHVSRDLYPGIPV IFCGDFNSTPSTGMYHFVISGSIAEDHEDWASNGEEERCSMPLSHCFKLKSACGEPAYTNYVGGFHGCLD YIFIDLNTLEVEQVIPLPSHEEVTTHQALPSVSHPSDHIALVCDLKWK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	67.5 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.

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Locus ID:	211948
UniProt ID:	Q3TIU4
RefSeq Size:	3551
Cytogenetics:	14 A3
RefSeq ORF:	1824
Synonyms:	2'-PDE; E430028B21Rik
Summary:	Enzyme that cleaves 2',5'-phosphodiester bond linking adenosines of the 5'-triphosphorylated oligoadenylates, triphosphorylated oligoadenylates referred as 2-5A modulates the 2-5A system. Degrades triphosphorylated 2-5A to produce AMP and ATP. Also cleaves 3',5'-phosphodiester bond of oligoadenylates. Plays a role as a negative regulator of the 2-5A system that is one of the major pathways for antiviral and antitumor functions induced by interferons (IFNs). Suppression of this enzyme increases cellular 2-5A levels and decreases viral replication in cultured small-airway epithelial cells.[UniProtKB/Swiss-Prot Function]