

Product datasheet for **TP305292L**

PDE1A (NM_005019) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human phosphodiesterase 1A, calmodulin-dependent (PDE1A), transcript variant 1, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC205292 protein sequence
Red=Cloning site **Green**=Tags(s)

MGSSATEIEELENTTFKYLTGEQTEKMWQRLKGILRCLVKQLERGDVNWDLKKNIEYAASVLEAVYIDE
TRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMTKKKPEEKPKFRSIVHAVQAGIFVERMYRKYH
MVGLAYPAAVIVTLKDVKWSFDVFALNEASGEHSLKFMIELFTRYDLINRFKIPVSLITFAEAEVVG
YSKYKNPYHNLIIHAADVDTQTVHYIMLHTGIMHWLLEILAMVFAAAIIHDYEHTGTTNPFHIQTRSDVAI
LYNDRSVLENHHVSAAYRLMQEEEMNILINLSKDDWRDLRNLVIEMVLSTDMSGHFQQIKNIRNSLQQPE
GIDRAKTMSLILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRKSTMVAQSQIGF
IDFIVEPTFSLLDSTEKIPLIEEASKAETSSYVASSSTTIVGLHIADALRRSNTKGSMSDGSYSPDY
SLAAVDLKSFKNNLVDIIQQNKERWKELAAQGESDLHKNSDLVNAEEKHDETHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 62.1 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

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

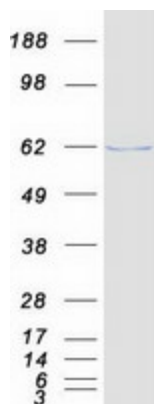
Storage: Store at -80°C.



[View online »](#)

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_005010
Locus ID:	5136
UniProt ID:	P54750
RefSeq Size:	4918
Cytogenetics:	2q32.1
RefSeq ORF:	1635
Synonyms:	CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A
Summary:	Cyclic nucleotide phosphodiesterases (PDEs) play a role in signal transduction by regulating intracellular cyclic nucleotide concentrations through hydrolysis of cAMP and/or cGMP to their respective nucleoside 5-prime monophosphates. Members of the PDE1 family, such as PDE1A, are Ca(2+)/calmodulin (see CALM1; MIM 114180)-dependent PDEs (CaM-PDEs) that are activated by calmodulin in the presence of Ca(2+) (Michibata et al., 2001 [PubMed 11342109]; Fidock et al., 2002 [PubMed 11747989]).[supplied by OMIM, Oct 2009]
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction

Product images:



Coomassie blue staining of purified PDE1A protein (Cat# [TP305292]). The protein was produced from HEK293T cells transfected with PDE1A cDNA clone (Cat# [RC205292]) using MegaTran 2.0 (Cat# [TT210002]).