

## Product datasheet for TP305292

### 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, 20 µg

**Species:** Human

**Expression Host:** HEK293T

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

MGSSATEIEELENTTFKYLTGEQTEKMWQRLKGILRCLVKQLERGDVNWDLKKNIEYAASVLEAVYIDE  
TRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMTKKKPEEKPKFRSIVHAVQAGIFVERMYRKYTH  
MVGLAYPAAVIVTLKDVKWSFDVFALNEASGEHSLKFMIELFTRYDLINRFKIPVSLITFAEAEVVG  
YSKYKNPYHNLIIHAADVDTQTVHYIMLHTGIMHWLLEILAMVFAAAIIHDYEHTGTTNPFHIQTRSDVAI  
LYNDRSVLENHHVSAAYRLMQEEEMNILINLSKDDWRDLRNLVIEMVLSTDMSGHFQIQKNIRNSLQQPE  
GIDRAKTMSLILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLCDRKSTMVAQSQIGF  
IDFIVEPTFSLLDSTEKIVIPIIEEASKAETSSYVASSSTTIVGLHIADALRRSNTKGSMSDGSYSPDY  
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.

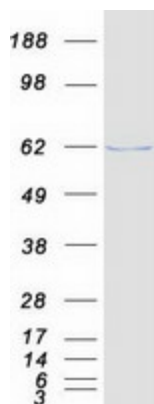
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005010</a>
<b>Locus ID:</b>	5136
<b>UniProt ID:</b>	<a href="#">P54750</a>
<b>RefSeq Size:</b>	4918
<b>Cytogenetics:</b>	2q32.1
<b>RefSeq ORF:</b>	1635
<b>Synonyms:</b>	CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).