

## Product datasheet for PH305292

### PDE1A (NM\_005019) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PDE1A MS Standard C13 and N15-labeled recombinant protein (NP_005010)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205292
Predicted MW:	62.3 kDa
Protein Sequence:	>RC205292 protein sequence Red=Cloning site Green=Tags(s)

MGSSATEIEELENTTFKYLTGGEQTEKMWQRLKGI LRCLVKQLERGDVNVVDLKKNIEYAASVLEAVYIDE  
TRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMTKKKPEEKPKFRSIVHAVQAGIFVERMYRKYTH  
MVGLAYPAAVIVTLKDVKWDFVFALNEASGEHSLKFMIEYELFTRYDLINRFKIPVSLITFAEAELEVG  
YSKYKNPYHNLIIHAADVTQTVHYIMLHTGIMHWL TELEILAMVFAAAIHDYEHTGTTNNFHIQTRSDVAI  
LYNDRSVLENHHVSAAYRLMQEEEMNIL INL SKDDWRDLRNLVIEMVLSTDMSGHFQQIKNIRNSLQQPE  
GIDRAKTM SLILHAADISHPAKSWKLYHRWTMALMEEF FLOGDKEAELGLPFSPLCDRKSTMVAQSQIGF  
IDFIVEPTFSLLDSTEKIVIPLIEEASKAETSSYVASSSTTIVGLHIADALRRSNTKGSMSDGSYSPDY  
SLAAVDLKSFKNNLVDI IQNKERWKELAAQGESDLHKNSEDLVNAEEKHDETHS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005010</u>
RefSeq Size:	4918
RefSeq ORF:	1635



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**Synonyms:** CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A

**Locus ID:** 5136

**UniProt ID:** [P54750](#)

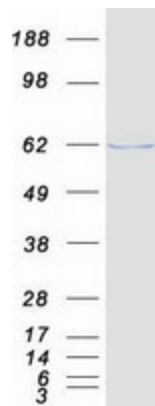
**Cytogenetics:** 2q32.1

**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]).