

Recombinant Full Length Human PDE1A Protein, C-Flag-tagged

Cat. No. PDE1A-779HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PDE1A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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+).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	62.1 kDa
AA Sequence	MGSSATEIEELENTTFKYLTGEQTEKMWQRLKGILRCLVKQLERGDVNVVDLKKNIE YAASVLEAVYIDE TRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMGMTKKKPEE KPKFRSIVHAVQAGIFVERMYRKTYH MVGLAYPAAVIVTLKDVDKWSFDVFALNEAS GEHSLKFMIYELFTRYDLINRFKIPVSLITFAEAEVGY SKYKNPYHNLIAADVTQT VHYIMLHTGIMHWLTELEILAMVFAAAIH DYEHTGTTNNFHIQTRSDVAI LYNDRSVL ENHHVSAAYRLMQEEEMNILINLSKDDWRDLRNLVLEMVLSTDMSGHFQQIKNIRNS

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LQQPE GIDRAKTMSLILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLP
 FSPLCDRKSTMVAQSQIGF IDFIVEPTFSLLTDSTEKIVIPLIEEASKAETSSYVASSST
 TIVGLHIADALRRSNTKGSMDSGSPDY
 SLAAVDLKSFKNNLVDIIQQNKERWKELAAQGESDLHKNSDLVNAEEKHDETHSTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction
Full Length	Full L.

GENE INFORMATION

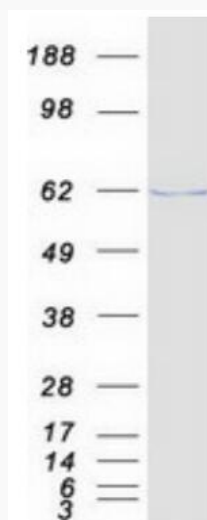
Gene Name	PDE1A phosphodiesterase 1A [Homo sapiens (human)]
Official Symbol	PDE1A

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Synonyms	HCAM1; HCAM-1; HSPDE1A; CAM-PDE 1A; CAM-PDE-1A
Gene ID	5136
mRNA Refseq	NM_005019.7
Protein Refseq	NP_005010.2
MIM	171890
UniProt ID	P54750



Coomassie blue staining of purified PDE1A protein.