

Recombinant Human PDE1A Protein, His-tagged

Cat. No. PDE1A-300H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDE1A(Gly2~Asp318) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly2~Asp318
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+) (Michibata et al., 2001 [PubMed 11342109]; Fidock et al., 2002 [PubMed 11747989]).
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	40.4kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 98%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	PDE1A phosphodiesterase 1A, calmodulin-dependent [Homo sapiens]
Official Symbol	PDE1A
Synonyms	PDE1A; phosphodiesterase 1A, calmodulin-dependent; calcium/calmodulin-dependent 3,5-cyclic nucleotide phosphodiesterase 1A; hCam-1; cam-PDE 1A; 61 kDa Cam-PDE; phosphodiesterase-1A; calmodulin-dependent phosphodiesterase; 3,5 cyclic nucleotide phosphodiesterase; calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase; HCAM1; HSPDE1A; MGC26303;
Gene ID	5136
mRNA Refseq	NM_001003683
Protein Refseq	NP_001003683

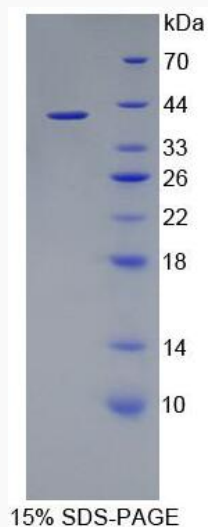
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MIM 171890

UniProt ID P54750



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