

Recombinant Human PDE1A

Cat. No. PDE1A-29692TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human): PDE1A ,with an N terminal enzyme tag. MW= 88.3 kDa.Expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
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.
Tissue specificity	Several tissues, including brain, kidney, testes and heart.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 20mM Glutathione, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE1 subfamily.
Full Length	Full L.

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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;
Gene ID	5136
mRNA Refseq	NM_001003683
Protein Refseq	NP_001003683
MIM	171890
Uniprot ID	P54750
Chromosome Location	2q32.1
Pathway	Ca-dependent events, organism-specific biosystem; CaM pathway, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Calmodulin induced events, organism-specific biosystem;
Function	calmodulin binding; calmodulin-dependent cyclic-nucleotide phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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