

Recombinant Human PDE1A 293 Cell Lysate

Cat. No. PDE1A-3353HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for phosphodiesterase 1A, calmodulin-dependent (PDE1A), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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

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

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signaling pathway, conserved biosystem; Calmodulin induced events, organism-specific biosystem; Cam-PDE 1 activation, organism-specific biosystem; DAG and IP3 signaling, 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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