

Recombinant Human PDE6A 293 Cell Lysate

Cat. No. PDE6A-3347HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A) 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 PDE6A phosphodiesterase 6A, cGMP-specific, rod, alpha [Homo sapiens]

Official Symbol PDE6A

Synonyms PDE6A; phosphodiesterase 6A, cGMP-specific, rod, alpha; PDEA; rod cGMP-specific 3,5-cyclic phosphodiesterase subunit alpha; PDE V-B1; GMP-PDE alpha; cGMP phosphodiesterase alpha subunit; rod photoreceptor cGMP phosphodiesterase alpha subunit; RP43; CGPR-A;

Gene ID 5145

mRNA Refseq NM_000440

Protein Refseq NP_000431

MIM 180071

UniProt ID P16499

Chromosome Location 5q31.2-q34

Pathway Hemostasis, organism-specific biosystem; Nitric oxide stimulates guanylate cyclase, organism-specific biosystem; Phototransduction, organism-specific biosystem; Phototransduction, conserved biosystem; Platelet homeostasis, organism-specific

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biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;

Function

3,5-cyclic-GMP phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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