

Recombinant Human PDE4D 293 Cell Lysate

Cat. No. PDE4D-3350HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 duncce homolog, Drosophila) (PDE4D), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid (True ORF cDNA clone RC212410, OriGene Technologies, Inc.) 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

IP, WB. 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

PDE4D phosphodiesterase 4D, cAMP-specific [*Homo sapiens*]

Official Symbol

PDE4D

Synonyms

PDE4D; phosphodiesterase 4D, cAMP-specific; DPDE3, phosphodiesterase 4D, cAMP specific (dunce (*Drosophila*) homolog phosphodiesterase E3); cAMP-specific 3,5-cyclic phosphodiesterase 4D; phosphodiesterase E3 dunce homolog (*Drosophila*); cAMP-specific phosphodiesterase PDE4D6; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, *Drosophila*); DPDE3; PDE43; STRK1; HSPDE4D; PDE4DN2; FLJ97311; DKFZp686M11213;

Gene ID

5144

mRNA Refseq

NM_001104631

Protein Refseq

NP_001098101

MIM

600129

UniProt ID

Q08499

Chromosome Location

5q12

Pathway

DARPP-32 events, organism-specific biosystem; G Protein Signaling Pathways,

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organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Morphine addiction, organism-specific biosystem; Morphine addiction, conserved biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem;

Function

3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; cAMP binding; drug binding; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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