# Recombinant Human PDE7A 293 Cell Lysate

**Cat. No.** PDE7A-3341HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for phosphodiesterase 7A (PDE7A), 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. |
| **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 |

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| | mixture at room temperature for 30 min). Load 5 ug lysate per lane. |

## GENE INFORMATION

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| **Gene Name** | PDE7A phosphodiesterase 7A [ Homo sapiens ] |
| **Official Symbol** | PDE7A |
| **Synonyms** | PDE7A; phosphodiesterase 7A; high affinity cAMP-specific 3,5-cyclic phosphodiesterase 7A; HCP1; TM22; phosphodiesterase isozyme 7; PDE7; |
| **Gene ID** | 5150 |
| **mRNA Refseq** | NM_002603 |
| **Protein Refseq** | NP_002594 |
| **MIM** | 171885 |
| **UniProt ID** | Q13946 |
| **Chromosome Location** | 8q13 |
| **Pathway** | G Protein Signaling Pathways, 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; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; |
| **Function** | 3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-AMP phosphodiesterase |

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| | activity; hydrolase activity; metal ion binding; |

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