# Active Recombinant Rat Pde7a protein, GST-tagged

**Cat. No.** Pde7a-1543R **Lot. No.** (See product label)

## SPECIFICATION

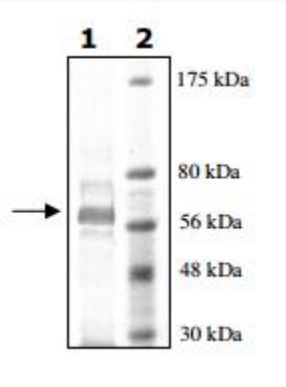
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| **Product Overview** | Recombinant Rat Pde7a(147–482 aa) fused with GST tag at N-terminal was expressed in Insect cells. |
| **Species** | Rat |
| **Source** | Insect Cells |
| **ProteinLength** | 147-482 a.a. |
| **Form** | 45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 18 mM glutathione, 10% glycerol, and 3 mM DTT. |
| **Bio-activity** | ≥354 pmol/min/μg. |
| **Molecular Mass** | 65 kDa |
| **Unit Definition** | One unit is defined as the amount of enzyme that will convert 1 pmole of 3', 5'-cAMP to 5'-AMP per minute at 37 centigrade. |
| **Applications** | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |
| **Storage** | >6 months at -80 centigrade. Avoid freeze/thaw cycles. |
| **Concentration** | 0.34 mg/ml |

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## GENE INFORMATION

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|---|---|
| **Gene Name** | Pde7a phosphodiesterase 7A [ Rattus norvegicus ] |
| **Official Symbol** | Pde7a |
| **Synonyms** | PDE7A; phosphodiesterase 7A; high affinity cAMP-specific 3,5-cyclic phosphodiesterase 7A; rolipram-insensitive phosphodiesterase type 7; PDE7-1; |
| **Gene ID** | 81744 |
| **mRNA Refseq** | NM_031080 |
| **Protein Refseq** | NP_112342 |
| **Chromosome Location** | 2q24 |
| **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 activity; 3,5-cyclic-AMP phosphodiesterase activity; cyclic-nucleotide phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity; |

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