

## Active Recombinant Rat Pde4d Protein (2-804), N-GST tagged

**Cat. No.** Pde4d-12R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Rat phosphodiesterase 4D (PDE4D) (GenBank Accession No. NM_001113328), a.a. 2-804 (end) with N-terminal GST-tag, expressed in a Baculovirus infected Sf9 cell expression system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 2-804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | Enables beta-2 adrenergic receptor binding activity; cyclic-nucleotide phosphodiesterase activity; and enzyme binding activity. Involved in several processes, including positive regulation of smooth muscle cell migration; positive regulation of smooth muscle cell proliferation; and regulation of signal transduction. Located in several cellular components, including Golgi apparatus; centrosome; and myofibril. Part of protein-containing complex. Used to study mental depression. Biomarker of transient cerebral ischemia. Human ortholog(s) of this gene implicated in acrodysostosis. Orthologous to human PDE4D (phosphodiesterase 4D). |
| <b>Form</b>             | Aqueous buffer solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | ≥ 22,535 pmole/min/μg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 117.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                       |                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | ≥80 %                                                                                                                                                                                              |
| <b>Applications</b>   | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.                                                                                                          |
| <b>Usage</b>          | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| <b>Storage</b>        | > 6 months at -80 centigrade                                                                                                                                                                       |
| <b>Storage Buffer</b> | 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, and 20 % glycerol.                                                                                                                      |
| <b>Shipping</b>       | At -80 centigrade                                                                                                                                                                                  |
| <b>Warning</b>        | Avoid freeze/thaw cycles.                                                                                                                                                                          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Pde4d phosphodiesterase 4D [ <i>Rattus norvegicus</i> (Norway rat) ]                                                                                                                                                                                                                |
| <b>Official Symbol</b> | Pde4d                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | Pde4d; phosphodiesterase 4D; DPDE3; PDE3/IVd; cAMP-specific 3',5'-cyclic phosphodiesterase 4D; 3',5'-cyclic AMP phosphodiesterase; cAMP-specific phosphodiesterase PDE4D; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, <i>Drosophila</i> ); EC 3.1.4.53 |
| <b>Gene ID</b>         | 24627                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_001113328                                                                                                                                                                                                                                                                        |

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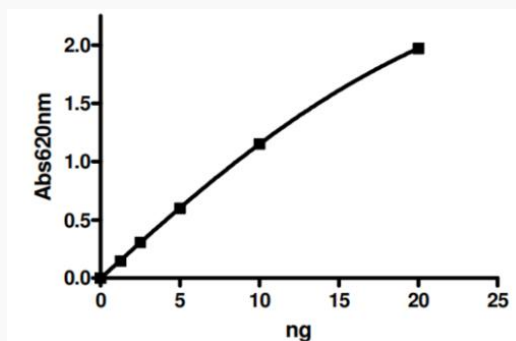
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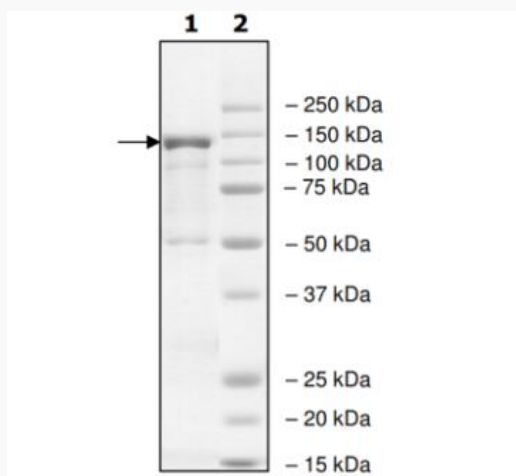
**Protein Refseq** NP\_001106799

**UniProt ID** P14270

**Activity**



**SDS-PAGE**



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