

## Recombinant Human PDE9A Protein, His/GST-tagged

Cat. No. PDE9A-08H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human PDE9A protein (1-533) with a N-terminal His/GST-tag was expressed in insect cells.                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-533                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | The protein encoded by this gene catalyzes the hydrolysis of cAMP and cGMP to their corresponding monophosphates. The encoded protein plays a role in signal transduction by regulating the intracellular concentration of these cyclic nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. |
| <b>Form</b>             | Lyophilized from sterile 20 mM Tris, pH 7.4, with 500 mM sodium chloride, 5 mM GSH, and 10% glycerol                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 89.5 kDa                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | <1.0 EU/μg, determined by the LAL endotoxin assay                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | ≥90% estimated by SDS-PAGE                                                                                                                                                                                                                                                                                                                           |
| <b>Stability</b>        | ≥ 1 year                                                                                                                                                                                                                                                                                                                                             |

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**Storage** Store at -80 centigrade

## GENE INFORMATION

**Gene Name** PDE9A phosphodiesterase 9A [ Homo sapiens (human) ]

**Official Symbol** PDE9A

**Synonyms** PDE9A; phosphodiesterase 9A; HSPDE9A2; high affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A; CGMP-specific 3',5'-cyclic phosphodiesterase type 9; phosphodiesterase PDE9A21

**Gene ID** 5152

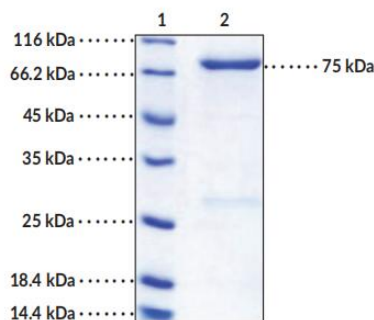
**mRNA Refseq** NM\_001001567

**Protein Refseq** NP\_001001567

**MIM** 602973

**UniProt ID** O76083

### SDS-PAGE Analysis of PDE9A



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Lane 1: MW Markers, Lane 2: PDE9A. SDS-PAGE Analysis of PDE9A. This protein has a calculated molecular weight of 89.5 kDa. It has an apparent molecular weight of approximately 75 kDa by SDS-PAGE under reducing conditions.

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