

## Recombinant Human PDE1B Protein, His/GST-tagged

Cat. No. PDE1B-04H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant human PTPN2 protein (1-314) with a N-terminus His/GST-tag was expressed in insect cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 1-536                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. |
| <b>Form</b>             | Lyophilized from sterile 50 mM Tris, pH 8.0, with 100 mM sodium chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 89.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | <1.0 EU/μg, determined by the LAL endotoxin assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | ≥94% estimated by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

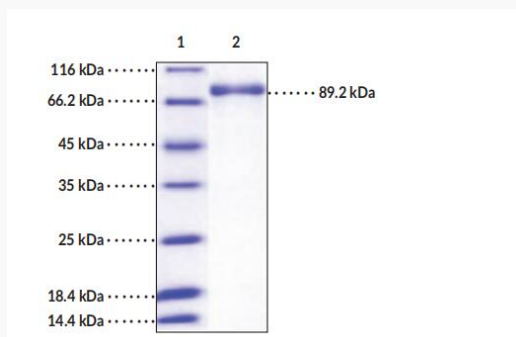
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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | ≥ 1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | PDE1B phosphodiesterase 1B [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>  | PDE1B                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | PDE1B; phosphodiesterase 1B; PDE1B1; PDES1B; HEL-S-79p; calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B; 63 kDa Cam-PDE; calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase; calmodulin-stimulated phosphodiesterase PDE1B1; cam-PDE 1B; epididymis secretory sperm binding protein Li 79p; phosphodiesterase 1B, calmodulin-dependent; presumed 63kDa form of the type 1 cyclic nucleotide phosphodiesterase family known as PDE1B |
| <b>Gene ID</b>          | 5153                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>      | NM_000924                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_000915                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>              | 171891                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>       | Q01064                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# **SDS-PAGE Analysis of PDE1B1**



Lane 1: MW Markers, Lane 2: PDE1B1.

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