

## Recombinant Mouse Ppp1r1a Protein, Myc/DDK-tagged

**Cat. No.** Ppp1r1a-5068M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length protein phosphatase 1, regulatory inhibitor subunit 1A (Ppp1r1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Inhibitor of protein-phosphatase 1. This protein may be important in hormonal control of glycogen metabolism. Hormones that elevate intracellular cAMP increase I-1 activity in many tissues. I-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. Following a rise in intracellular calcium, I-1 is inactivated by calcineurin (or PP2B). Does not inhibit type-2 phosphatases. |
| <b>Molecular Mass</b>   | 18.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                              |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

|                        |                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Ppp1r1a protein phosphatase 1, regulatory inhibitor subunit 1A [ Mus musculus (house mouse) ]                                                                                                                            |
| <b>Official Symbol</b> | Ppp1r1a                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | PPP1R1A; protein phosphatase 1, regulatory (inhibitor) subunit 1A; protein phosphatase 1 regulatory subunit 1A; IPP-1; inhibitor-1; protein phosphatase inhibitor 1; protein phosphatase inhibitor-1; I-1; 0610038N18Rik |
| <b>Gene ID</b>         | 58200                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_021391                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_067366                                                                                                                                                                                                                |
| <b>UniProt ID</b>      | Q9ERT9                                                                                                                                                                                                                   |

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