

## Recombinant Human PPP1R1A Protein (His Tag)

**Catalog No.** PKSH032968

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

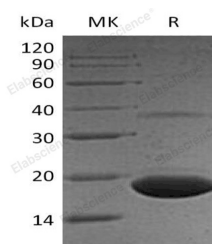
### Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Protein Phosphatase 1 Regulatory Subunit 1A;Protein Phosphatase Inhibitor 1;I-1;IPP-1;PPP1R1A;IPP1 |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Met 1-Val171   |
| <b>Accession</b>                   | AAH22470.1   |
| <b>Calculated Molecular Weight</b> | 20.0 kDa   |
| <b>Observed molecular weight</b>   | 18 kDa   |
| <b>Tag</b>                         | C-His  |
| <b>Bioactivity</b>                 | Not validated for activity   |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 90 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.  |
| <b>Shipping</b>       | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C. |
| <b>Formulation</b>    | Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM DTT, 50% Glycerol, pH 8.5.   |
| <b>Reconstitution</b> | Not Applicable  |

### Data



> 90 % as determined by reducing SDS-PAGE.

### Background

Protein Phosphatase 1 Regulatory Subunit 1A (PPP1R1A) is an inhibitor of protein-phosphatase 1. PPP1R1A is a cellular regulator of eIF2 alpha phosphorylation. In hormonal control of glycogen metabolism, IPP-1 protein plays important function. Hormones can elevate intracellular cAMP level and elevate IPP-1 activity. PPP1R1A activation caused cAMP increase, cAMP control over proteins that are not directly phosphorylated by PKA following a rise in intracellular

### For Research Use Only

calcium. IPP-1 is inactivated by calcineurin (PP2B). Multiple domains in IPP-1 target cellular PP1 complexes.