

## Recombinant Human Protein Phosphatase 3, Regulatory Subunit B, His-tagged

Cat. No. PPP3R2-973H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant human PPP3R2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | PPP3R2 is a calcium-dependent, calmodulin stimulated serine/threonine protein phosphatase. In eukaryotes, the phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions including division, homeostasis and apoptosis. In general, the protein phosphatase (PP) holoenzyme is a trimeric complex composed of a regulatory subunit, a variable subunit and a catalytic subunit. Recombinant human PPP3R2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Formulation</b>      | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Weight</b> | 22 kDa (193aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | > 95% by SDS – PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>    | 0.5 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                                 |                                                                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSHMSTMGNEASY PAEMCSHFDN DEIKRLGRRF<br>KKLDLDKSGS LSVEEFMSLP ELRHNPLVRR VIDVFDTGDG GEVDFKEFIL<br>GTSQFSVKGD EEQKLRFASIDMDKGYI SNGELFQVLK MMVGNNLTDW<br>QLQQLVDKTI IILDKDGDKG ISFEEFSAVV RDLEIHKKLIV |
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| <b>Storage</b> | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
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## GENE INFORMATION

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| <b>Gene Name</b> | PPP3R2 protein phosphatase 3, regulatory subunit B, beta [ Homo sapiens ] |
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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | PPP3R2;PPP3RL; protein phosphatase 3, regulatory subunit B, beta; Calcineurin subunit B type 2;Calcineurin B-like protein; Calcineurin BII; Protein phosphatase 2B regulatory subunit 2; Protein phosphatase 3 regulatory subunit B beta isoform; CBLP; protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), beta isoform (calcineurin B, type II);protein phosphatase 3 (formerly 2B), regulatory subunit B, beta isoform |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| <b>Gene ID</b> | 5535 |
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| <b>mRNA Refseq</b> | NM_147180 |
|--------------------|-----------|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_671709 |
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|                   |        |
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| <b>UniProt ID</b> | Q96LZ3 |
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|                            |      |
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| <b>Chromosome Location</b> | 9q31 |
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| <b>Function</b> | calcium ion binding |
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