

# Recombinant Human PYCR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PYCR1-1742H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PYCR1 MS Standard C13 and N15-labeled recombinant protein (NP_722546) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes an enzyme that catalyzes the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. This enzyme may also play a physiologic role in the generation of NADP(+) in some cell types. The protein forms a homopolymer and localizes to the mitochondrion. Alternative splicing results in multiple transcript variants.                               |
| <b>Molecular Mass</b>   | 33.2 kDa                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MSVGFAGAGQLAFALAKGFTAAGVLAHKIMASSPDMDLATVSALRKMVGKLTPHNK<br>ETVQHSDVLFLAVKPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVI<br>RCMTNTPVVVREGATVYATGTHAQVEDGRLMEQQLSSVGFCTEVEEDLIDAVTGLS<br>GSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQHPGQLKD<br>NVSSPGGATIHVLES GGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILD<br>KDHLPLELGSPEGLHPLLLQYQLARAPSTRTRPLEQKLISEEDLAANDILDYKDDDDK<br>V |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                      |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

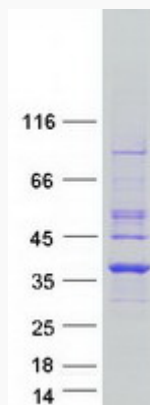
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PYCR1 pyrroline-5-carboxylate reductase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                  |
| <b>Official Symbol</b> | PYCR1                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | PYCR1; pyrroline-5-carboxylate reductase 1; pyrroline-5-carboxylate reductase 1, mitochondrial; P5C; P5CR 1; P5C reductase 1; proliferation-inducing protein 45; mitochondrial pyrroline-5-carboxylate reductase 1; P5CR; PRO3; PYCR; PIG45; PP222; ARCL2B; ARCL3B; |
| <b>Gene ID</b>         | 5831                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_153824                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_722546                                                                                                                                                                                                                                                           |
| <b>MIM</b>             | 179035                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | P32322                                                                                                                                                                                                                                                              |

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**SDS-PAGE**

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