

Recombinant Full Length Human PYCR1 Protein, C-Flag-tagged

Cat. No. PYCR1-1476HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PYCR1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	33.2 kDa
AA Sequence	MSVGFAGAGQLAFALAKGFTAAGVLAHAKIMASSPDMDLATVSALRKMGVKLTPHNK ETVQHSDVLFLAV KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVI RCMTNTPVVVREGATVYATGTH AQVEDGRLMEQQLSSVGFCTEVEEDLIDAVTGLS GSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL LGAAKMLLHSEQHPGQLKD NVSSPGGATIHAIHVLES GGFRSLLINAVEASCIRTRELQSMADQEQVSPA AIKKTILDKVKLDSPAGTALSPSGHTKLLPRSLAPAGKDTRTRPLEQKLISEEDLAAND ILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Arginine and proline metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	PYCR1 pyrroline-5-carboxylate reductase 1 [Homo sapiens (human)]
Official Symbol	PYCR1
Synonyms	P5C; P5CR; PRO3; PYCR; PIG45; PP222; ARCL2B; ARCL3B
Gene ID	5831
mRNA Refseq	NM_006907.4
Protein Refseq	NP_008838.2
MIM	179035

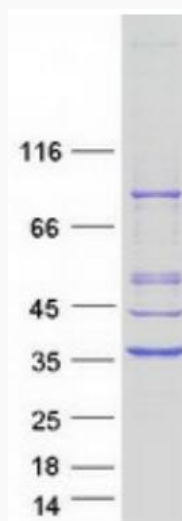
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UniProt ID

P32322



Coomassie blue staining of purified PYCR1 protein.

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