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Product datasheet for PH310027

PYCR1 (NM_006907) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PYCR1 MS Standard C13 and N15-labeled recombinant protein (NP_008838)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210027
Predicted MW:	33.2 kDa
Protein Sequence:	>RC210027 representing NM_006907 Red=Cloning site Green=Tags(s) MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDLATVSALRKMGVKLTPHNKETVQHSDVLFLAV KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTH AQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL LGAAKMLLHSEQHPGQLKDNVSSPGGATIHALHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPA AIKKTILDKVKLDSPAGTALSPSGHTKLLPRSLAPAGKD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_008838
RefSeq Size:	2059
RefSeq ORF:	957
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Locus ID:	5831

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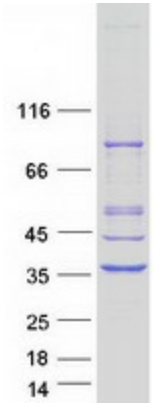
UniProt ID: P32322, A0A024R8U9, Q8TBX0

Cytogenetics: 17q25.3

Summary: 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. [provided by RefSeq, Aug 2013]

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified PYCR1 protein (Cat# [TP310027]). The protein was produced from HEK293T cells transfected with PYCR1 cDNA clone (Cat# [RC210027]) using MegaTran 2.0 (Cat# [TT210002]).