Product Information

Recombinant human PYCR2 protein

Catalog Number: IBATGP3066

PRODUCT INPORMATION

Expression system
E.coli

Domain
1-320aa

UniProt No.
Q96C36

NCBI Accession No.
NP_037460

Alternative Names
Pyrroline-5-carboxylate reductase 2 isoform 1, P5CR2

PRODUCT SPECIFICATION

Molecular Weight
36 kDa (343aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol, 5mM DTT, 1mM EDTA

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
PYCR2 also known as pyrroline-5-carboxylate reductase 2 isoform 1, belongs to the pyrroline-5-carboxylate reductase family. This protein catalyzes the conversion of pyrroline-5-carboxylate to proline, which is the last step in proline biosynthesis. The 3 substrates of this enzyme are L-proline, NAD+, and NADP+, whereas its 4 products are 1-pyrroline-5-carboxylate, NADH, NADPH, and H+. Recombinant human PYCR2, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Manufactured for:
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Amino acid Sequence

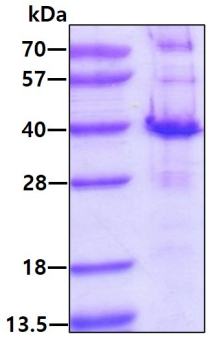
<MGSSHHHHHH SSGLVPRGSH MGS>MSVGFIG AGQLAYALAR GFTAAGILSA HKIIASSPEM NLPTVSALRK MGVNLTRSNK ETVKHSDVLF LAVKPHIIPF ILDEIGADVQ ARHIVVSCAA GVTISSVEKK LMAFQPAPKV IRCMTNTPVV VQEGATVYAT GTHALVEDGQ LLEQLMSSVG FCTEVEEDLI DAVTGLSGSG PAYAFMALDA LADGGVKMGL PRRLAIQLGA QALLGAAKML LDSEQHPCQL KDNVCSPGGA TIHALHFLES GGFRSLLINA VEASCIRTRE LQSMADQEKI SPAALKKTLL DRVKLESPTV STLTPSSPGK LLTRSLALGG KKD

General References

De Ingeniis J, et al. (2012). PLoS One. 7(9):e45190.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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