

Recombinant human PPCS protein

Catalog Number: ATGP1064

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-311aa

UniProt No.

Q9HAB8

NCBI Accession No.

NP_078940

Alternative Names

Phosphopantothenate--cysteine ligase, COAB, PPC synthetase

PRODUCT SPECIFICATION

Molecular Weight

36.1 kDa (331aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% 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

PPCS, also known as phosphopantothenate--cysteine ligase, catalyzes the first step in the biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5), which is an essential universal pathway in prokaryotes and eukaryotes. PPCS, one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylcysteine. Recombinant human PPCS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

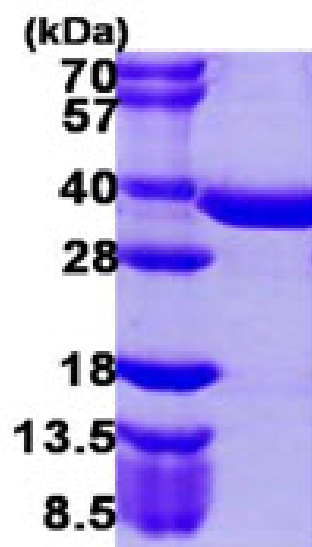
MGSSHHHHHH SSGLVPRGSH MAEMDPVAEF PQPPGAARWA EVMARFAARL GAQGRRVVLV TSGGTKVPLE
ARPVRFIDNF SSGRRGATSA EAFLAAGYGV LFLYRARSFAF PYAHRFPPT WLSALRPSGP ALSGLLSLEA EENALPGFAE
ALRSYQEA AAAAGTFLAVEFT TLADYLHLLQ AAAQALNPLG PSAMFYLA AAAVSDFYVPVSE MPEHKIQSSG GPLQITMKMV
PKLLSPLVKD WAPKAFIISF KLETDP AIVI NRARKALEIY QHQVVVANIL ESRQSFV FIV TKDSETKLLL S EEEIEKGVE
IEEKIVDNLQ SRHTAFIGDR N

General References

Manoj N. et al. (2003) Structure. 11 : 927-936.
Christina Spry. et al. (2009) J Biol Chem. 284: 24904-24913.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)