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

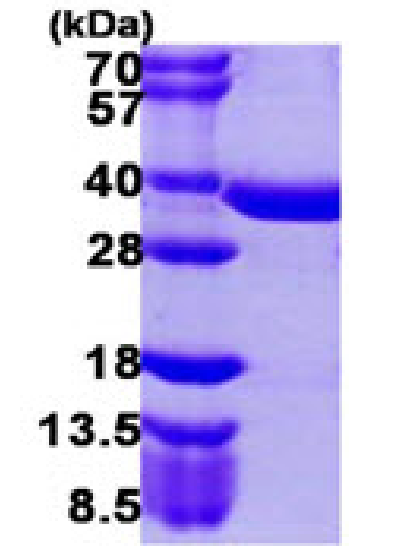
MGSSHHHHHH SSGLVPRGSH MAEMDPVAEF PQPPGAARWA EVMARFAARL GAQGRRVVLV TSGGTKVPLE ARPVRFLDNF SSGRRGATSA EAFLAAGYGV LFLYRARSAF PYAHRFPPQT WLSALRPSGP ALSGLLSLEA EENALPGFAE ALRSYQEAAA AGTFLAVEFT TLADYLHLLQ AAAQALNPLG PSAMFYLAAA VSDFYVPVSE MPEHKIQSSG GPLQITMKMV PKLLSPLVKD WAPKAFIISF KLETDPAIVI NRARKALEIY QHQVVVANIL ESRQSFVFIV TKDSETKLLL SEEEIEKGVE 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



15% SDS-PAGE (3ug)

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