

Recombinant Human PPCS, His-tagged

Cat. No. PPCS-995H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPCS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-311aa).
Species	Human
Source	E.coli
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol
Molecular Weight	36.1 kDa(331aa) confirmed by MALDI-TOF
Purity	>95% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAEMDPVAEF PQPPGAARWA EVMARFAARL GAQGRRVVLV TSGGTKVPLE ARPVRFLDNF SSGRRGATSAEAFLAAGYGV LFLYRARSFA PYAHRFPQT WLSALRPSGP ALSGLLSLEA EENALPGFAE ALRSYQEAAA AGTFLAVEFT TLADYLHLLQ AAAQALNPLG PSAMFYLA

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VSDFYVPVSE MPEHKIQSSG GPLQITMKMV PKLLSPLVKD WAPKAFIISF
KLETDPAIVI NRARKALEIYQHQQVVANIL ESRQSFVFIV TKDSETKLLL
SEEEIEKGVE IEEKIVDNLQ SRHTAFIGDR N

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

PPCS phosphopantothenoylcysteine synthetase [Homo sapiens]

Synonyms

PPCS; FLJ11838; MGC117357; MGC138220; RP11-163G10.1;
phosphopantothenate--cysteine ligase; PPC synthetase; NP_001070915.1; EC
6.3.2.5; NP_078940.2; OTTHUMP00000008433

Gene ID

79717

mRNA Refseq

NM_024664

Protein Refseq

NP_078940

MIM

609853

UniProt ID

Q9HAB8

**Chromosome
Location**

1p34.2

Function

ligase activity; phosphopantothenate--cysteine ligase activity

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