

## PPCS Human

**Description:**PPCS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 331 amino acids (1-311 a.a.) and having a molecular mass of 36.1kDa.PPCS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-146

**Synonyms:**Phosphopantothenate--cysteine ligase, Phosphopantothenoylcysteine synthetase, PPC synthetase, PPCS, COAB, RP11-163G10.1.

For research use only.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MAEMDPVAEF PQPPGAARWA  
EVMARFAARL GAQRRVVLV TSGGTKVPLE ARPVRFLDNF SSGRRGATSA EAFLAAGYGV  
LFLYRARSAP PYAHRFPQT WLSALRPSGP ALSGLLSLEA EENALPGFAE ALRSYQAAAA  
AGTFLAVEFT TLADYLHLLQ AAAQALNPLG PSAMFYLAAL VSDFYVPVSE MPEHKIQSSG  
GPLQITMKMV PK

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

PPCS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.

**Stability:**

PPCS Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Phosphopantothenate-cysteine ligase (PPCS) catalyzes the first step in the biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5), which is a vital universal pathway in prokaryotes and eukaryotes. PPCS, being one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylcysteine.

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