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## Product Data Sheet

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Product Name: PPCS Human  
 Cat. No.: GP22129  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phosphopantothenate--cysteine ligase; Phosphopantothenoylcysteine synthetase; PPC synthetase; PPCS; COAB; RP11-163G10.1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAEMDPVAEF QPPPGAARWA EVMARFAARL GAQGRRVVLV TSGGTKVPLE ARPVRFLDNF SSGRRGATSA EAFLAAGYGV LFLYRARSFA PYAHRFPPT WLSALRPSGP ALSGLLSLEA EENALPGFAE ALRSYQEAAA AGTFLAVEFT TLADYLHLLQ AAAQALNPLG PSAMFYLA VSDFYVPVSE MPEHKIQSSG GPLQITMKMV PKLLSPLVKD WAPKAFIISF KLETDPAIVI NRARKALEIY QHQVVANIL ESRQSFVFIV TKDSETKLLL SEEEIEKGVE IEEKIVDNLQ SRHTAFIGDR N.		
Formulation	PPCS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

### 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.

### Stability

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

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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