

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 GAQGRRVVLV TSGGTKVPLE ARPVRFLDNF SSGRRGATSA EAFLAAGYGV
LFLYRARSAP PYAHRFPPT WLSALRPSGP ALSGLLSLEA EENALPGFAE ALRSYQEA
AGTFLAVEFT TLADYLHLLQ AAAQALNPLG PSAMFYLA
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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