

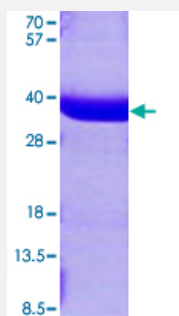
Full-Length

PPCS (Human) Recombinant Protein

Catalog # P3439

Size 100 ug

Applications



Specification

Product Description

Human PPCS (NP_078940, 1 a.a. - 331 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MGSSHHHHHSSGLVPRGSHMAEMDPVAEFPQPPGAARWAEVMARFAARLGAQGRRVVLVT
SGGTKVPLEARPVRFLDNFSSGRRGATSAEAFLAAGYGVLFYRARSAPFYAHRFPQTWLSAL
RPSGPALSGLLSLEAEENALPGFAEALRSYQAAAAAGTFLAVEFTTLADYLHLLQAAAQALNPLG
PSAMFYLAAAVSDFYVPVSEMPHKKIQSSGGPLQITMKMVPKLLSPLVKDWAPKAFIISFKLETDP
AMINRARKALEYQHQQVVVANILESRQSFVFMTKDSETKLLLSEEEIEKGVEIEEKMDNLQSRHTAF
IGDRN

Host

Escherichia coli

Theoretical MW (kDa)

36.1

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

1 mg/mL

Purity

> 95% by SDS-PAGE

Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (10% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — PPCS

Entrez GeneID	79717
Protein Accession#	NP_078940
Gene Name	PPCS
Gene Alias	FLJ11838, MGC117357, MGC138220
Gene Description	phosphopantothenoylcysteine synthetase
Omim ID	609853
Gene Ontology	Hyperlink
Gene Summary	Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCS (EC 6.3.2.5), one of the last enzymes in this pathway , converts phosphopantothenate to phosphopantothenoylcysteine (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM]
Other Designations	OTTHUMP00000008431 OTTHUMP00000008433

Pathway

- [Metabolic pathways](#)
- [Pantothenate and CoA biosynthesis](#)