

Recombinant Human PPIC, His-tagged

Cat. No. PPIC-7969H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cyclophilin C/CYPC is produced by our E. coli expression system. The target protein is expressed with sequence (Trp131Asp182) of Human CYPC fused with a His tag at the Cterminus.
Species	Human
Source	E.coli
Description	Cyclophilin C is an enzyme (EC 5.2.1.8) found in both prokaryotes and eukaryotes that interconverts the cis and trans isomers of peptide bonds with the amino acid proline. Proline has an unusually conformationally restrained peptide bond due to its cyclic structure with its side chain bonded to its secondary amine nitrogen. Most amino acids have a strong energetic preference for the trans peptide bond conformation due to steric hindrance, but prolines unusual structure stabilizes the cis form so that both isomers are populated under biologically relevant conditions. Proteins with prolyl isomerase activity include cyclophilin, FKBP, and parvulin, although larger proteins can also contain prolyl isomerase domains.
Form	Supplied as a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, 10% Glycerol, pH 7.4
AA Sequence	MSDKIIHLTD DSFDTDVLKA DGAILVDFWA EWCGPCKMIA PILDEIADEY QGKLTVAKLN IDQNPGTAP KYGIRGIPTL LLFKNGEVAA TKVGALSKGQ LKEFLDANLA GSGSGHMH H HHSSGLVP RGSGMKETAA AKFERQHMS

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PDLGTDDDDK AMAKRGPSVT AKVFFDVRIG DK DVGRIVI GLFGKVVPKT
 VENFVALATG EKGYGKGSK FHRVIKDFMI QGGDITTGDG TGG VSIYGE
 TFPDENFKLK

Purity	Greater than 95% as determined by reducing SDS-PAGE.
Notes	For research use only.
Storage	Store at less than 20°C. stable for 6 months after receipt. Please minimize freezethaw cycles.

GENE INFORMATION

Gene Name	PPIC peptidylprolyl isomerase C (cyclophilin C) [Homo sapiens]
Official Symbol	PPIC
Synonyms	PPIC; peptidylprolyl isomerase C (cyclophilin C); CYPC; PPIase C; cyclophilin C; parvulin; peptidyl-prolyl cis-trans isomerase C; rotamase C; HGNC:9256
Gene ID	5480
mRNA Refseq	NM_000943.4
Protein Refseq	NP_000934.1
MIM	123842
UniProt ID	P45877
Chromosome Location	5q23.2

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Function

cyclosporin A binding; peptidyl-prolyl cis-trans isomerase activity; unfolded protein binding

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