

Recombinant Human Peptidylprolyl isomerase E isoform 1, His-tagged

Cat. No. PPIE-118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPIE was expressed in E.coli and purified by conventional chromatography techniques, 37.5 kDa (337 aa).
Species	Human
Source	E.coli
Description	Cyclophilins possess the activity of peptidyl-prolyl cis-trans isomerase (PPIase) and are involved in cellular protein folding and protein interactions. PPIE contains two RNA binding domains at the N-terminal region and a PPIase domain at the C-terminal region. It was not known what cellular and physiological roles of PPIE.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMATT KRVLYVGGLA EEVDDKVLHA AFIPFGDITD IQIPLDYETE KHRGFADFVEF ELAEDAAAAI DNMNESELF RTIRVNLAKP MRIKEGSSRP VWSDDDWLKK FSGKTLEENK EEEGSEPPKA ETQEGEPIAK KARSNPQVYM DIKIGNKPAG RIQMLLRSDV VPMTAENFRC LCTHEKGFGF KGSSFHRIIP QFMCQGGDFT NHNGTGGKSI YGKKFDDENF ILKHTGPGLL SMANSGPNTN GSQFFLTCDK TDWLDGKHVV FGEVTEGLDV LRQIEAQGSK DGKPKQKVII ADCGEYV
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0)
Purity	> 95% by SDS - PAGE

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Concentration	1 mg/ml (determined by Bradford assay)
Biological activity	Specific activity is > 210 nmoles/min/ug, and is defined as the amount of enzyme that cleave 1umole of suc-AAFP-pNA per minute at 1°C in Tris-HCl pH8.0 using chymotrypsin.
Activity Assay	1. Prepare assay buffer into a suitable container and pre-chilling on ice before use: the final concentrations are 35 mM Tris, pH 8.0, 1uM suc-AAFP-pNA). 2. Add recombinant Cyclophilin E protein with various concentrations (1ug, 2ug, 5ug) in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A410nm until the value is constant using a spectrophotometer. 4. Add pre-chilled chymotrypsin to 12.5 uM and mix immediately. 5. Record the increase in A410 nm for 20 minutes.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	PPIE peptidylprolyl isomerase E (cyclophilin E) [Homo sapiens]
Synonyms	peptidylprolyl isomerase E (cyclophilin E); CYP-33; MGC3736; MGC111222; PPIE; peptidylprolyl isomerase E; PPlase E; rotamase E; cyclophilin E; cyclophilin 33; OTTHUMP00000010837; OTTHUMP00000010838; peptidyl-prolyl cis-trans isomerase E; peptidylprolyl isomerase E, isoform 1; EC 5.2.1.8; CYP33; Cyclophilin-33; peptidylprolyl isomerase E (cyclophilin E)
Gene ID	10450
mRNA Refseq	NM_006112

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Protein Refseq	NP_006103
MIM	602435
UniProt ID	Q9UNP9
Chromosome Location	1p32
Function	RNA binding; cyclosporin A binding; isomerase activity; nucleotide binding; peptidyl-prolyl cis-trans isomerase activity; protein binding
PDBrendering based on 1zcx. Available structures:1zcx,1zmf,2c	