Recombinant Human Peptidylprolyl Isomerase H

Cat. No. PPIH-111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human cyclophilin H was expressed in E.coli and purified by conventional chromatography techniques, 19.2 kDa (177 aa).
Species	Human
Source	E.coli
Description	Cyclophilin H (also known as peptidylpropyl isomerase H, PPIH) is a member of peptidyl-propyl cis-trans isomerase (PPIase) family, which catalyzes the cis-transisomerization of proline imidic peptide bonds in oligopeptides and accelerates the folding of proteins. The cyclophilin H is a specific component of the human U4/U6 small nuclear ribonucleoprotein particle involved in the nuclear splicing of premRNA.It stably associates with the U4/U6-60kD and -90kD proteins, the human orthologues of the Saccharomyces cerevisiaePrp4 and Prp3 splicing factors.
Sequences of amino acids	MAVANSSPVN PVVFFDVSIGG QEVGRMKIEL FADVVPKTAE NFRQFCTGEF RKDGVPIGYK GSTFHRVIKD FMIQGGDFVN GDGTGVASIY RGPFADENFK LRHSAPGLLS MANSGPSTN GCQFFITCSK CDWLDGKHV VFGKIIDGLL VMRKIENVPT GPNNKPKLPV V ISQCGEM
Formulation	Liquid in phosphate-buffered saline (pH 7.4) containing 10% glycerol.
Purity	> 95% by SDS PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Biological activity	Specific activity is > 220 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin.
Activity Assay	1. Prepare 170ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-Hcl, pH 8.0, and 20nM chymotrypsin.2. Add 10ul of recombinant Cyclophikin H (PPIH) protein with 1ug in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer.4. Add 20ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM)5. Record the increase in A405 nm for 30 minutes at 25°C.
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	PPIH peptidylprolyl isomerase H (cyclophilin H) [Homo sapiens]
Synonyms	PPIH; CYPH; CYP-20; MGC5016; SnuCyp-20; USA-CYP; peptidylprolyl isomerase H (cyclophilin H); CYPH; CYP-20; MGC5016; USA-CYP; SnuCyp-20; peptidylprolyl isomerase H; PPIase h; rotamase H; cyclophilin H; USA-CyP SnuCyp-20; OTTHUMP00000008725; peptidylprolyl cis-trans isomerase H; U-snRNP-associated cyclophilin SunCyp-20; small nuclear ribonucleoprotein particlespecific cyclophilin H; CYP20; EC 5.2.1.8; Rotamase H; Small nuclear ribonucleoprotein particle-specific; peptidylprolyl isomerase H; peptidylprolyl isomerase H (cyclophilin H).
Gene ID	10465
mRNA Refseq	NM-006347

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Protein Refseq	NP-006338
MIM	606095
UniProt ID	O43447
Chromosome Location	1p34.1
Function	cyclosporin A binding, isomerase activity, isomeraseactivity
PDB rendering based on 1mzw	

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