

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com **OriGene Technologies GmbH**

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

AR09072PU-L Recombinant human PPIH (Cyclophilin H) (aa 1-177)

Alternate names:	CYP20, CYPH, PPIase H, Peptidyl-prolyl cis-trans isomerase H, Rotamase H, Small nuclear ribonucleoprotein particle-specific cyclophilin H, SnuCyp-20, U-snRNP- associated cyclophilin SnuCyp-20, USA-CYP
Quantity:	0.5 mg
Concentration:	1.0 mg/ml
Background:	Cyclophilin H (also known as peptidylpropyl isomerase H, PPIH) is a member of peptidyl-propyl cis-trans isomerase (PPIase) family, which catalyzes the cis-trans isomerization 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 pre-mRNA. It stably associates with the U4/U6-60kD and -90kD proteins, the human orthologues of the Saccharomyces cerevisiae Prp4 and Prp3 splicing factors.
Uniprot ID:	<u>043447</u>
NCBI:	<u>NP_006338.1</u>
GenelD:	<u>10465</u>
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS PAGE Buffer System: PBS, pH 7.4, 10% glycerol Endotoxin Level: < 1.0 EU per 1 μg of protein (determined by LAL method)
Description:	Recombinant human cyclophilin H was expressed in E.coli and purified by conventional chromatography techniques. AA Sequence:
	MAVANSSPVN PVVFFDVSIG GQEVGRMKIE LFADVVPKTA ENFRQFCTGE FRKDGVPIGY KGSTFHRVIK DFMIQGGDFV NGDGTGVASI YRGPFADENF KLRHSAPGLL SMANSGPSTN
	GCQFFITCSK CDWLDGKHVV FGKIIDGLLV MRKIENVPTG PNNKPKLPVV ISQCGEM
	Specific Activity: > 220 nmoles/min/mg, defined as the amount of enzyme that cleaves 1 umole of suc-AAFP-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin. Molecular weight: 19.2 kDa (177 aa)
Storage:	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Reidt U., et al. (2000) J Biol Chem. 275(11):7439-42. Horowitz DS., et al. (2002) EMBO 21(3):470-80.
Protocols:	Activity Assay 1. Prepare 170 ul 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 10 ul of recombinant Cyclophilin H (PPIH) protein with 1 ug in assay buffer.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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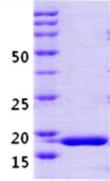
3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer.

4. Add 20 ul 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.

Pictures:

(kDa)



15% SDS-PAGE (3ug)

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2/2

PPIH: 15% SDS-PAGE (3 µg)

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