

Datasheet for ABIN934991
PPIH Protein (AA 1-177)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	PPIH
Protein Characteristics:	AA 1-177
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MAVANSSPVN PVVFFDVSIG GQEVGRMKIE LFADVVPKTA ENFRQFCTGE FRKDGVPIGY KGSTFHRVIK DFMIQGGDFV NGDGTGVASI YRGPFADENF KLRHSAPGLL SMANSGPSTN GCQFFITCSK CDWLDGKHWV FGKIIDGLLV MRKIENVPTG PNNKPKLPVV ISQCGEM
Characteristics:	Purified recombinant Human PPIH protein Expression System: E.coli Bioactivity: Specific activity is > 40 nmoles/min/µg, and is defined as the amount of enzyme that cleaves 1µM of suc-AAFP-pNA per minute at 1 °C in Tris-HCl pH 8.0 using chymotrypsin. Molecular weight on SDS-PAGE will appear higher.
Purity:	> 95 % pure
Endotoxin Level:	< 1.0 EU per µg of protein (determined by LAL method)

Target Details

Target:	PPIH
Alternative Name:	PPIH (PPIH Products)
Background:	<p>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 <i>Saccharomyces cerevisiae</i> Prp4 and Prp3 splicing factors. Recombinant human cyclophilin H was expressed in <i>E. coli</i> and purified by conventional chromatography techniques.</p> <p>Alternative Names: Peptidylprolyl isomerase H CypH protein, EC 5.2.1.8 protein, PPIH protein, UsnRNP associated cyclophilin SnuCyp20 protein, Peptidylprolyl isomerase H protein, Cyclophilin H protein, , CYPH protein, MGC5016 protein, CYP20 protein, USACYP protein, PPIase H protein, Rotamase H protein, SnuCyp-20 protein, SnuCyp-20 protein, Small nuclear ribonucleoprotein particle-specific cyclophilin H protein</p>
Molecular Weight:	19.2 kDa (177 AA)

Application Details

Application Notes:	PPIH protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.
Assay Procedure:	<ol style="list-style-type: none">1. Prepare assay buffer in a suitable container and pre-chill on ice before use: The final concentrations are 35 mM Tris, pH 8.0, 1 μM suc-AAFP-pNA).2. Add recombinant Cyclophilin H protein with various concentrations (1 μg, 1 μg, 1 μg) in assay buffer.3. Mix by inversion and equilibrate to 1 °C and monitor the A410 nm until the value is constant using a spectrophotometer.4. Add pre-chilled chymotrypsin to 12.5 μM and mix immediately.5. Record the increase in A410 nm for 20 minutes
Restrictions:	For Research Use only

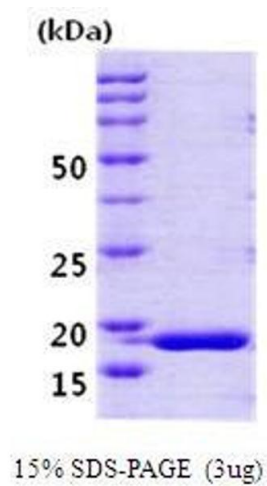
Handling

Format:	Liquid
Concentration:	1 mg/mL

Handling

Buffer:	Supplied as a liquid in PBS, pH 7.4, containing 10 % glycerol.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	RT/-20 °C
Storage Comment:	Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or -70 °C for long term storage.

Images



SDS-PAGE

Image 1. Figure annotation denotes ug of protein loaded and % gel used.