

## PPIH Protein, Human, Recombinant (His)

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | Peptidyl-Prolyl Cis-Trans Isomerase H; Rotamase H; PPIase H; Small Nuclear Ribonucleoprotein Particle-Specific Cyclophilin H; CypH; PPIH; U-snRNP-Associated Cyclophilin SnuCyp-20; CYP20; USA-CYP |
| Protein Construction: | Met1-Met177  |
| Species:              | Human  |
| Expression Host:      | E. coli  |
| Accession:            | O43447   |
| Molecular Weight:     | 24 KDa (reducing condition)  |
| AA Sequence:          | Met1-Met177  |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | Greater than 95% as determined by reducing SDS-PAGE. (QC verified)  |
| Endotoxin:           | < 0.1 ng/μg (1 EU/μg) as determined by LAL test.  |
| Formulation:         | Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.  |

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Peptidyl-Prolyl Cis-Trans Isomerase H (PPIH) belongs to the Cyclophilin-type PPIase family that accelerate the folding of proteins. PPIases can catalyze the cis-trans isomerization of Proline Imidic peptide bonds in oligopeptides. PPIH participates in pre-mRNA splicing. It is a specific component of the complex that includes pre-mRNA processing factors PRPF3, PRPF4, and PRPF18, as well as U4/U5/U6 tri-snRNP. In addition, PPIH has PPIase activity and may play a role as a chaperone mediating the interactions between different proteins inside the spliceosome.

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