

## Cyclophilin B/PPIB Protein, Human (HEK293, C-His, solution)

<b>Cat. No.:</b>	HY-P70011
<b>Synonyms:</b>	rHuPeptidyl-prolyl cis-trans isomerase B/PPIB, His; CYP-S1; CYPB; HEL-S-39; OI9; SCYLP
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P23284 (D34-A212)
<b>Gene ID:</b>	5479
<b>Molecular Weight:</b>	Approximately 21.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p> DEKKKGPKVT    VKVYFDLRIG    DEDVGRVIFG    LFGKTVPKTV  DNFVALATGE    KGFYKNSKF    HRVIKDFMIQ    GGDFTRGDGT  GGKSIYGERF    PDENFKLKHV    GPGWVSMANA    GKDTNGSQFF  ITTVKTAWLD    GKHVVFGKVL    EGMEVVRKVE    STKTDSRDKP  LKDVIIADCG    KIEVEKPPFA </p>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM PB, 6% Sucrose, 4% Mannitol, 50 mM NaCl, 0.05% Tween 80, pH 6.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A.
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	<p>Cyclophilin B/PPIB Protein serves as a peptidyl-prolyl cis-trans isomerase (PPIase), actively engaging in the catalysis of cis-trans isomerization of proline imidic peptide bonds in oligopeptides, thus potentially contributing to the facilitation of protein folding. This enzymatic function underscores the protein's role in the dynamic process of promoting proper conformational changes in polypeptide chains, essential for their functional maturation. As a key player in the intricate realm of protein folding, Cyclophilin B/PPIB plays a crucial part in maintaining cellular protein homeostasis by facilitating the correct folding of nascent or misfolded polypeptides. The precise orchestration of these PPIase activities underscores</p>
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the protein's importance in cellular physiology, warranting further exploration to unveil the specific molecular mechanisms and cellular pathways through which Cyclophilin B/PPIB contributes to protein folding dynamics.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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