

# Recombinant human Cyclophilin B/PPIB protein

Catalog Number: CYP0701

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

26-216aa

### UniProt No.

P23284

### NCBI Accession No.

NP\_000933

### Alternative Names

Peptidyl-prolyl cis-trans isomerase B, Peptidylprolyl isomerase B, PPIase B, Cphn-2, Cyclophilin B, CYP-20b, CYPB, CYP-S1, OI9, Rotamase B, S-cyclophilin, SCYLP

## PRODUCT SPECIFICATION

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### Molecular Weight

21.2 kDa (192aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20mM NaCl, 0.5mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Specific activity is > 1,500nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

### Tag

Non-Tagged

### Application

SDS-PAGE, Enzyme Activity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

Cyclophilin B (also known as PPIB, peptidylpropyl isomerase B) is a cyclosporine-binding protein and is mainly located within the endoplasmic reticulum. It is associated with the secretory pathway and released in biological fluids. This protein can bind to cells derived from T- and B-lymphocytes, and may regulate cyclosporine A-mediated immunosuppression. Recombinant human cyclophilin B was expressed in *E. coli* and purified by using conventional chromatography techniques

### Amino acid Sequence

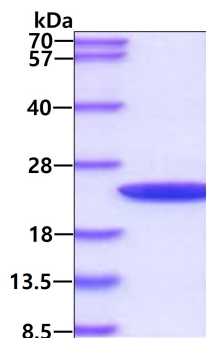
MLLPGPSAAD EKKKGPKVTV KVFYDLRIGD EDVGRVIFGL FGKTVPKTVD NFVALATGEK GFGYKNSKFH RVIKDFMIQG  
GDFTRGDGTG GKSIYGERFP DENFKLKHYG PGWVSMANAG KDTNGSQFFI TTVKTAWLDG KHVVFQKVL E GMEVVRKVES  
TKTDSRDKPL KDVIIADCGK IEVEKPF AIA KE

### General References

Watashi K, et al.(2005) Mol Cell. 19(1):111-22.  
Obata Y, et al. (2005) J Biol Chem. 280(18):18355-60  
Denys A , et al. (1997) Immunology. 91(4):609-17.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.