

## Human Recombinant Cyclophilin B

<b>CATALOG #:</b>	6310-100	100 µg
<b>ALTERNATE NAMES:</b>	PPIB, Peptidyl prolyl isomerase B, CYPB; SCYLP; CYP-S1.	
<b>SOURCE:</b>	E.Coli	
<b>PURITY:</b>	> 95% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	21.2 kDa (192 aa – 26-216 aa).	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method)	
<b>FORMULATION:</b>	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20 mM NaCl, 0.5 mM DTT, 10% glycerol.	

### STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

### DESCRIPTION:

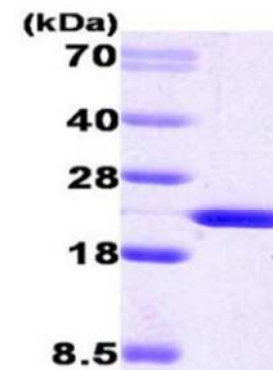
Cyclophilin B is a cyclosporine-binding protein. It is both secreted and retained in the ER. When secreted, Cyclophilin B mediates chemotaxis and T cell adhesion to fibronectin. This is likely due to its prolyl *cis/trans* isomerase activity. Intracellularly, Cyclophilin B appears to serve as a molecular chaperone for molecules destined for secretion. It does so via stabilization, and facilitating the activity of additional chaperones. It also binds to cells derived from T- and B-lymphocytes, and may regulate cyclosporine A-mediated immunosuppression.

### AMINO ACID SEQUENCE:

MLLPGPSAAD EKKGPKVTV KVFYDLRIGD EDVGRVIFGL FGKTVPKTVD NFVALATGEK  
GFGYKNSKFH RVIKDFMIQG GDFTRGDGTG GKSIYGERFP DENFKLKHYG  
PGWVSMANAG KDTNGSQFFI TTVKTAWLDG KHVVFQKYLE GMEVVRKVES  
TKTDSRDKPL KDVIADCGK IEVEKPFPIA KE

### BIOLOGICAL ACTIVITY:

Specific activity is > 220 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1 µmole of Suc-AAFP-pNA per minute at 25°C in Tris HCl pH 8.0 using chymotrypsin.



15% SDS-PAGE (3ug)

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### RELATED PRODUCTS:

- Cyclosporine A (Cat. No. 1522-100, 1G)
- Human Recombinant Cyclophilin A (Cat. No. 6311-100)
- Human Recombinant Cyclophilin D (Cat. No. 6312-100)
- Human Recombinant Cyclophilin D (Cat. No. 6312-100)
- Human Recombinant Cyclophilin H (Cat. No. 6313-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**