

## Product datasheet for **AR09014PU-N**

### Cyclophilin B (26-216) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Cyclophilin B (26-216) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MLLPGPSAAD EKKKGPKVTV KVFYDLRIGD EDVGRVIFGL FGKTVPKTVD NFVALATGEK GFGYKNSKFH RVIKDFMIQG GDFTRGDGTG GKSIYGERFP DENFKLKHYG PGWVSMANAG KDTNGSQFFI TTVKTAWLDG KHVWFGKYLE GMEVVRKVES TKTDSRDKPL KDVIIADCGK IEVEKPFAIA KE
Predicted MW:	21.2 kDa
Concentration:	lot specific
Purity:	>95% by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris 8.0, 0.20 mM NaCl, 0.5 mM DTT, 10% glycerol
Bioactivity:	Specific: > 220 nmoles/min/mg, defined as the amount of enzyme that cleaves 1 umole of suc-AAPF-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin.
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Applications:	Protocol: <b>Activity Assay</b> 1. Prepare 170 ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-HCl, pH 8.0, and 20nM chymotrypsin. 2. Add 10 ul of recombinant Cyclophilin B protein with 1 ug in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer. 4. Add 20 ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM) 5. Record the increase in A405 nm for 30 minutes at 25°C.
Protein Description:	Recombinant human cyclophilin B was expressed in E.coli and purified by using conventional chromatography techniques.



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<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000933</a>
<b>Locus ID:</b>	5479
<b>UniProt ID:</b>	<a href="#">P23284</a>
<b>Cytogenetics:</b>	15q22.31
<b>Synonyms:</b>	B; CYP-S1; CYPB; HEL-S-39; OI9; SCYLP
<b>Summary:</b>	The protein encoded by this gene 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. Variants have been identified in this protein that give rise to recessive forms of osteogenesis imperfecta. [provided by RefSeq, Oct 2009]
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**Product images:**