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Recombinant human Cyclophilin B/PPIB protein

Catalog Number: CYP0701

PRODUCT INFORMATION

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, PPlase B, Cphn-2, Cyclophilin B, CYP-20b, CYPB, CYP-S1, OI9, Rotamase B, S-cyclophilin, SCYLP

PRODUCT SPECIFICATION

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

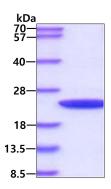
MLLPGPSAAD EKKKGPKVTV KVYFDLRIGD EDVGRVIFGL FGKTVPKTVD NFVALATGEK GFGYKNSKFH RVIKDFMIQG GDFTRGDGTG GKSIYGERFP DENFKLKHYG PGWVSMANAG KDTNGSQFFI TTVKTAWLDG KHVVFGKVLE GMEVVRKVES TKTDSRDKPL KDVIIADCGK IEVEKPFAIA KE

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.

