

Recombinant mouse Cyclophilin B/PPIB protein

Catalog Number: ATGP3599

PRODUCT INFORMATION

Expression system

E.coli

Domain

34-216aa

UniProt No.

P24369

NCBI Accession No.

NP_035279

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

Molecular Weight

22.7 kDa (207aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Biological Activity

Specific activity is > 1,000nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

Tag

His-Tag

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

Ppib, also known as peptidyl-prolyl cis-trans 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 mouse Ppib, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSM>NDKKKG PKVTVKVYFD LQIGDESVGR VFGLFGKTV PKTVDNFVAL
ATGEKGFQYK NSKFHRVIKD FMIQGGDFTR GDGTGGKSIY GERFPDENFK LKHYGPGWVS MANAGKDTNG SQFFITTVKT
SWLDGKHVVF GKVLEGMVV RKVESTKTDS RDKPLKDVII VDSGKIEVEK PFIAIKE

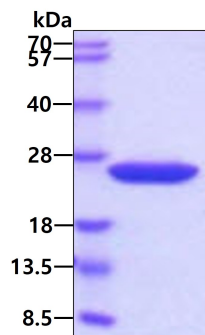
General References

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.