

Recombinant human Cyclophilin A/PPIA protein

Catalog Number: CYP0702

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-165aa

UniProt No.

P62937

NCBI Accession No.

NP_066953

Alternative Names

Peptidylprolyl isomerase A, CYPA, CYPH, MGC12404, MGC23397, MGC117158, Cyclophilin A, Cyclosporin A binding protein, Peptidyl prolyl cis trans isomerase A, PPIA, PPIase A, Rotamase A, T cell cyclophilin

PRODUCT SPECIFICATION

Molecular Weight

20kDa (185aa) 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 > 650nmol/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

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

Cyclophilin A (also known as Peptidylprolyl isomerase A, PPIA) encodes a member of the peptidyl-prolyl cis-trans isomerase family. They are highly-conserved cytoplasmic enzymes that accelerate protein folding. Cyclophilin A is also incorporated into many viruses, including HIV-1, where it has been speculated to be involved in functions such as viral assembly and infectivity. Recombinant human PPIA, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MVNPTVFFDI AVDGEPLGRV SFELFADKVP KTAENFRALS TGEKGFYK SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG EKFEDEFIL KHTGPGILSM ANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE AMERFGSRNG KTSKKITIAD CGQLE

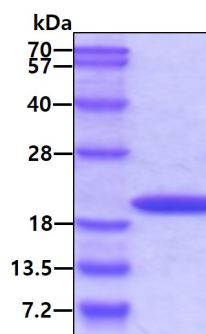
General References

Holzman, T.F., et al, (1991). *J. Biol. Chem.* 266(4): 2474-2479

Berthoux L , et al, (2005). *Proc Natl Acad Sci u S A.* 102(41):14849-53

DATA

SDS-PAGE



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