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_066953.1

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.

Recombinant human Cyclophilin A/PPIA protein

Catalog Number: CYP0702

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

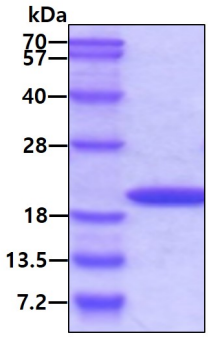
<MGSSHHHHHH SSGLVPRGSH> MVNPTVFFDI AVDGEPLGRV SFELFADKVP KTAENFRALS TGEKGFGYKG SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG EKFEDENFIL KHTGPGILSM ANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE AMERFGSRNG KTSKKITIAD CGQLE

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



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