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Recombinant mouse Cyclophilin A/PPIA protein

Catalog Number: ATGP2981

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-164aa

UniProt No.

P17742

NCBI Accession No.

NP 032933

Alternative Names

Peptidyl-prolyl cis-trans isomerase A, PPlase A, Cyclophilin A, Cyclosporin A-binding protein, Rotamase A, SP18

PRODUCT SPECIFICATION

Molecular Weight

20.4 kDa (187aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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.

BACKGROUND

Description

ppiA also known as Peptidyl-prolyl cis-trans isomerase A. This is an enzyme found in both prokaryotes and eukaryotes that interconverts the cis and trans isomers of peptide bonds with the amino acid proline. Proline has an unusually conformationally restrained peptide bond due to its cyclic structure with its side chain bonded to its secondary amine nitrogen. Most amino acids have a strong energetic preference for the trans peptide bond conformation due to steric hindrance, but proline's unusual structure stabilizes the cis form so that both isomers are populated under biologically relevant conditions. Recombinant mouse ppiA, fused to His-tag at N-terminus,



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was expressed in E. coli and purified by using conventional chromatography techniques.

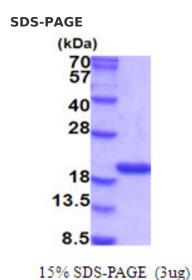
Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMVNPTVF FDITADDEPL GRVSFELFAD KVPKTAENFR ALSTGEKGFG YKGSSFHRII PGFMCQGGDF TRHNGTGGRS IYGEKFEDEN FILKHTGPGI LSMANAGPNT NGSQFFICTA KTEWLDGKHV VFGKVKEGMN IVEAMERFGS RNGKTSKKIT ISDCGQL

General References

Haendler B., et al. (1987) EMBO J. 6:947-950

DATA



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

