

AR51801PU-N

Human Cyclophilin A (1-164, His-tag) - Purified

Alternate names:

CYPA, Cyclophilin-A, Cyclosporin A-binding protein, EC=5.2.1.8, PPIA, PPIase A, Peptidyl-prolyl cis-trans isomerase A, Rotamase A

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P17742](#)

NCBI:

[NP_032933](#)

GenelD:

[268373](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT.

Description:

Recombinant mouse ppiA, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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

Molecular weight: 20.4 kDa (187aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:

