

## Cyclophilin A Human

**Description:** Cyclophilin-A Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 185 amino acids (1-165 a.a.) and having a molecular mass of 20 kDa. PPIase-A is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-366

For research use only.

**Synonyms:** Peptidylprolyl isomerase A, CYPA, CYPH, MGC12404, MGC23397, MGC117158, PPIase A, Rotamase A, PPIA, Peptidyl-prolyl cis-trans isomerase A, EC 5.2.1.8, Cyclophilin A, Cyclosporin A-binding protein.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MVNPTVFFDI AVDGEPLGRV  
SFELFADKVP KTAENFRALSTGEKGFYK SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG  
EKFEDENFIL KHTGPGILSMANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE  
AMERFGSRNG KTSKKITIADCGQLE.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

1 mg/ml solution containing 20mM Tris-HCl 8.0, 20mM NaCl, 0.5mM DTT and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. Cyclophilin-A is a cyclosporin binding-protein and may play a role in cyclosporin A-mediated immunosuppression. Cyclophilin-A can also interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions. Multiple pseudogenes that map to different chromosomes have been reported.

**Biological Activity:**

Specific activity is > 270 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.

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