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**Product Data Sheet**


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Product Name: Cyclophilin A Human  
 Cat. No.: GP21518  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MVNPTVFFDI AVDGEPLGRV SFELFADKVP KTAENFRALSTGEKGFYKG SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG EK FEDENFIL KHTGPGILSMANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE AMERFGSRNG KTSKKITIADCGQLE.		
Formulation	1 mg/ml solution containing 20mM Tris-HCl 8.0, 20mM NaCl, 0.5mM DTT and 10% glycerol.		

**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 > 650 nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37°C in Tris-HCl pH8.0 using chymotrypsin.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

### Background

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.

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