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## Product Data Sheet

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Product Name: Cyclophilin E Human  
 Cat. No.: GP21528  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidyl-prolyl cis-trans isomerase E; PPIase E; Rotamase E; Cyclophilin-33; PPIE; peptidylprolyl isomerase E; CYP33; Cyclophilin E; CYP-33; MGC3736; MGC111222.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMATT KRVLYVGGLA EEVDDKVLHA AFIPFGDITD IQIPLDYETE KHRGFADFVEF ELAEDAAAAI DNMNESELF RTIRVNLAKP MRIKEGSSRP VWSDDDWLKK FSGKTLEENK EEEGSEPPKA ETQEGEPIAK KARSNPQVYM DIKIGNKPAG RIQMLLRSDV VPMTAENFRC LCTHEKGFGF KGSSFHRIIP QFMCQGGDFT NHNGTGGKSI YGKKFDDNF ILKHTGPGLL SMANSGPNTN GSQFFLTCDK TDWLDGKHVV FGEVTEGLDV LRQIEAQGSK DGKPKQKVII ADCGEYV.		
Formulation	Cyclophilin-E solution containing 20mM Tris pH-8.		

### Introduction

Cyclophilin-E is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and speeds up the protein folding. Cyclophilin-E contains a highly conserved cyclophilin domain in addition to a RNA-binding domain. Cyclophilin-E exhibits PPIase activity, protein folding activities and possess RNA-binding activity. Cyclophilin-E contains 2 RNA binding domains at the N-terminal region and a PPIase domain at the C-terminal region.

### Biological Activity

Specific activity is > 210 nmoles/min/ug, and is defined as the amount of enzyme that cleave 1umole of suc-AAFP-pNA per minute at 1C in Tris-HCl pH8.0 using chymotrypsin.

### Stability

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

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

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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.

### Background

Cyclophilin-E Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 337 amino acids (1-301 a.a.) and having a molecular mass of 37.5 kDa. Cyclophilin-E is fused to a 36 amino acids long His Tag at N-terminus and is purified by proprietary chromatographic techniques.

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