

---

**Product Data Sheet**


---

Product Name: PPID Mouse

Cat. No.: GP22130

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 D; PPIase D; 40 kDa peptidyl-prolyl cis-trans isomerase; Cyclophilin-40; CYP-40; Cyclophilin-related protein; CYP40; CYPD; PPID; Peptidylprolyl Isomerase D.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEFMHAS PAAKPSNSKN PRVFFDVDIG GERVGRIVLE LFADIVPKTA ENFRALCTGE KGTGSTTGKP LHFKGCPFHR IIKKFMIQGG DFSNQNGTGG ESIYGEKFED ENFHYKHGRE GLLSMANAGP NTNGSQFFIT TVPTPHLDGK HVVFGQVIKG LGVARTLENV EVNGEKPALK CVIAECGELK EGDDWGIFPK DGSGDHPDF PEDADIDLKD VDKILLISED LKNIGNTFFK SQNWEMAIKK YAKVLRVDS SKAVIEKADR SRLQPIALSC VLNIGACKLK MSNWQGAIDS CLEALEMDPS NTKALYRKAQ GWQGLKEYDQ ALADLKAQE IAPGDKAIQA ELLKVKQMIK AQKDKEKAVY AKMFA.		
Formulation	PPID protein solution (1mg/ml) containing 20mM Tris-Hcl buffer (pH8.0), 10% glycerol and 1mM DTT.		

**Introduction**

Cyclophilin-D 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-D possess PPIase activity and binds to the immunosuppressant cyclosporin-A. Cyclophilin-D is very well known that its overexpression suppresses the apoptosis in cancer cell. Cyclophilin-D suppresses apoptotic cell death by the use of mitochondrial hexokinase-2 dependent mechanism in cancer cells.

**Biological Activity**

Specific activity is > 700nmol/min/mg, and is defined as the amount of enzyme that

**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

---

---

## Product Data Sheet

---

cleaves 1umole of suc-AAFP-PNA per minute at 37°C in Tris-HCl pH 8.0 using chymotrypsin.

### Stability

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

### Background

PPID Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 395 amino acids (1-370a.a.) and having a molecular mass of 43.4kDa. PPID is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**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**