

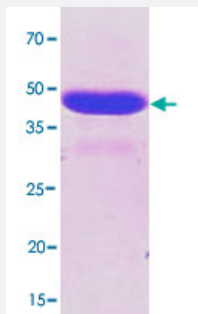
Bioactive

Full-Length

## PPID (Human) Recombinant Protein

Catalog # P3464      Size 100 ug

### Applications



### Specification

#### Product Description

Human PPID (NP\_005029, 1 a.a. - 370 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

#### Sequence

MGSSHHHHHHSSGLVPRGSHMSHPSPQAKPSNPSNPRVFFDVDIGGERVGRVLELFADIVPKT  
AENFRALCTGEKGIGHTTGKPLHFKGCPFHRIKKFMIQGGDFSNQNGTGGESYGEKFEDENFHY  
KHDREGLLSMANAGRNTNGSQFFITTVPTHLDGKHVVFGQVIKGIGVARILENVEVKGEKPAKLC  
VIAECGELKEGDDGGIFPKDGS GD SHPDPEDADIDLKDVKILLITEDLKNIGNTFFKSQNWEMAI  
KKYAEVLRVYDSSKAVIETADRAKLQPIALSCVLNIGACKLKMSNWQGAIDSCLEALELDPSNTKA  
LYRRAQGWQGLKEYDQALADLKKAAQGIAPEDKAIQAELLKVKQKIKAKDKKEKAVYAKMFA

#### Host

*Escherichia coli*

#### Theoretical MW (kDa)

42.9

#### Form

Liquid

#### Preparation Method

*Escherichia coli* expression system

#### Purification

Conventional Chromatography

#### Concentration

1 mg/mL

#### Purity

> 95% by SDS-PAGE

|                                |                                                                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>                | Specific activity is > 210 nmoles/min/ug, and is defined as the amount of enzyme that cleaves 1umol e of suc-AAFP-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin. |
| <b>Quality Control Testing</b> | Loading 3 ug protein in 15% SDS-PAGE                                                                                                                                            |
| <b>Storage Buffer</b>          | In PBS, pH 7.4 (10% glycerol).                                                                                                                                                  |
| <b>Storage Instruction</b>     | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.                                     |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — PPID

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">5481</a>                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Accession#</b> | <a href="#">NP_005029</a>                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>          | PPID                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Alias</b>         | CYP-40, CYPD, MGC33096                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Description</b>   | peptidylprolyl isomerase D                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Omim ID</b>            | <a href="#">601753</a>                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Summary</b>       | The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPlase) family. PPlases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein has been shown to possess PPlase activity and, similar to other family members, can bind to the immunosuppressant cyclosporin A. [provided by RefSeq] |
| <b>Other Designations</b> | 40 kDa peptidyl-prolyl cis-trans isomerase D PPlase cyclophilin 40 cyclophilin D cyclophilin-related protein rotamase                                                                                                                                                                                                                                                                                             |

## Pathway

- [Calcium signaling pathway](#)