

Full-Length

# PI16 (Human) Recombinant Protein (P01)

Catalog # H00221476-P01

Size 25 ug, 10 ug

## Applications

## Specification

### Product Description

Human PI16 full-length ORF ( AAH22399.2, 1 a.a. - 408 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MHGSCSFLMLLLPLLLLLVATTGPVGALTDEEKRLMVELHNLRYAQVSPTASDMLHMRWDEELA  
 AFAKAYARQCVMGHNKERGRGENLFAITDEGMDVPLAMEEWHHEREHYNLSAATCSPGQMC  
 GHYTQVWAKTERIGCGSHFCEKLQGVEETNIELLCNIEPPGNVKGKRPYQEGTPCSQCPSGY  
 HCKNSLCEPIGSPEDAQDLPYLVEAPSFRATEASDSRKMGTPSSLATGIPAFLVTEVSGSLATK  
 ALPAVETQAPTSLATKDPPSMATEAPPCVTEVPVPSILAAHSLPSLDEEPPVTFPKSTHVPIPKSADK  
 VTDKTKVPSRSPENSLDPKMSLTGARELLPHAQEEAEAEALPPSSEVLASVFPAQDKPGELQ  
 ATLDHTGHTSSKSLPKFPQYLCHR

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

70.8

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PI16

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">221476</a>                                                                                  |
| GeneBank Accession# | <a href="#">BC022399.1</a>                                                                              |
| Protein Accession#  | <a href="#">AAH22399.2</a>                                                                              |
| Gene Name           | PI16                                                                                                    |
| Gene Alias          | CRISP9, DKFZp586B1817, MGC45378, MSMBBP, PSPBP                                                          |
| Gene Description    | peptidase inhibitor 16                                                                                  |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                               |
| Gene Summary        | beta-binding protein protease inhibitor 16                                                              |
| Other Designations  | OTTHUMP00000016309 PSP94-binding protein microseminoprotein, beta-binding protein protease inhibitor 16 |

## Publication Reference

- [Skin-homing CD8+ T cells preferentially express GPI-anchored peptidase inhibitor 16, an inhibitor of cathepsin K.](#)

Lupsa N, Érsek B, Horváth A, Bencsik A, Lajkó E, Silló P, Oszvald Á, Wiener Z, Reményi P, Mikala G, Masszi T, Buzás EI, Pós Z.

European Journal of Immunology 2018 Dec; 48(12):1944.

Application: Func, Human, Human skin samples

- [PI16 is expressed by a subset of human memory Treg with enhanced migration to CCL17 and CCL20.](#)

Nicholson IC, Mavrangelos C, Bird DR, Bresatz-Atkins S, Eastaff-Leung NG, Grose RH, Gundsambuu B, Hill D, Millard DJ, Sadlon TJ, To S, Zola H, Barry SC, Krumbiegel D.

Cellular Immunology 2012 Jan; 275(1-2):12.

Application: Func, Human, Human memory Treg cells