

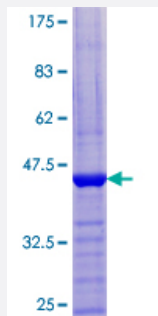
Full-Length

## PTS (Human) Recombinant Protein (P01)

Catalog # H00005805-P01

Size 25 ug, 10 ug

### Applications



### Specification

|                               |                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Human PTS full-length ORF ( NP_000308.1, 1 a.a. - 145 a.a.) recombinant protein with GST-tag at N-terminal.                                            |
| Sequence                      | MSTEGGGRRRCQAQVSRISFSASHRLYSKFLSDEENLKLFGKCNNPNNGHGHNYKVVVTVHGEID<br>PATGMVMNLADLK KYMEEAIMQPLDHNLDMDVPYFADVSTTENAVAYWDNLQKVLPGVLY<br>KVKVYETDNNIVYKGE |
| Host                          | Wheat Germ (in vitro)                                                                                                                                  |
| Theoretical MW (kDa)          | 42.8                                                                                                                                                   |
| Interspecies Antigen Sequence | Mouse (87); Rat (88)                                                                                                                                   |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>                                                                                                  |
| 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 — PTS

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">5805</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| GeneBank Accession# | <a href="#">NM_000317.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Accession#  | <a href="#">NP_000308.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Name           | PTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Alias          | FLJ97081, PTPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Description    | 6-pyruvoyltetrahydropterin synthase                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Omim ID             | <a href="#">261640</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Summary        | The enzyme encoded by this gene catalyzes the elimination of inorganic triphosphate from dihydroneopterin triphosphate, which is the second and irreversible step in the biosynthesis of tetrahydrobiopterin from GTP. Tetrahydrobiopterin, also known as BH(4), is an essential cofactor and regulator of various enzyme activities, including enzymes involved in serotonin biosynthesis and NO synthase activity. Mutations in this gene result in hyperphenylalaninemia. [provided by RefSeq] |
| Other Designations  | 6-pyruvoyl tetrahydrobiopterin synthase 6-pyruvoyl-tetrahydropterin synthase PTP synthase                                                                                                                                                                                                                                                                                                                                                                                                         |

## Pathway

- [Folate biosynthesis](#)

- [Metabolic pathways](#)

## Disease

- [Autistic Disorder](#)
- [Dystonia](#)
- [Dystonic Disorders](#)
- [Genetic Predisposition to Disease](#)
- [Mental Retardation](#)
- [Metabolic Diseases](#)
- [Phenylketonuria](#)
- [Phenylketonurias](#)