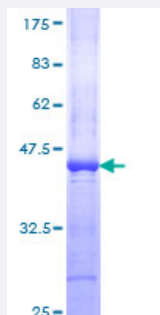


# TPH1 (Human) Recombinant Protein (Q01)

Catalog # H00007166-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Human TPH1 partial ORF ( NP_004170, 1 a.a. - 117 a.a.) recombinant protein with GST-tag at N-terminal.                    |
| <b>Sequence</b>                | MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLLHIESRKSRRNSEFEIFVDCDI<br>NREQLNDIFHLLKSHTNVLSVNLDPDNFTLKEDGMETVPWFPPKISDLDH |
| <b>Host</b>                    | Wheat Germ (in vitro)                                                                                                     |
| <b>Theoretical MW (kDa)</b>    | 38.61                                                                                                                     |
| <b>Preparation Method</b>      | <a href="#">in vitro wheat germ expression system</a>                                                                     |
| <b>Purification</b>            | Glutathione Sepharose 4 Fast Flow                                                                                         |
| <b>Quality Control Testing</b> | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                               |
| <b>Storage Buffer</b>          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                  |
| <b>Storage Instruction</b>     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                           |
| <b>Note</b>                    | 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 — TPH1

Entrez GeneID [7166](#)

GeneBank Accession# [NM\\_004179](#)

Protein Accession# [NP\\_004170](#)

Gene Name TPH1

Gene Alias MGC119994, TPH, TPRH

Gene Description tryptophan hydroxylase 1

Omim ID [191060](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes a member of the aromatic amino acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others

**Other Designations** indoleacetic acid-5-hydroxylase|tryptophan 5-hydroxylase|tryptophan 5-monooxygenase|tryptophan hydroxylase (tryptophan 5-monooxygenase)

## Pathway

- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Metabolic pathways](#)
- [Tryptophan metabolism](#)

## Disease

- [Abortion](#)
- [Acute Disease](#)
- [Adolescent Psychology](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Antisocial Personality Disorder](#)
- [Anxiety Disorders](#)
- [Aptitude](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Avoidance Learning](#)
- [Bipolar Disorder](#)
- [Borderline Personality Disorder](#)
- [Bulimia](#)
- [Bulimia Nervosa](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Chromosome Disorders](#)
- [Conduct Disorder](#)
- [Creativeness](#)
- [Decision Making](#)
- [Depression](#)
- [Depressive Disorder](#)

- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Dyskinesia](#)
- [Edema](#)
- [Electroconvulsive Therapy](#)
- [Epilepsy](#)
- [Functional Laterality](#)
- [Gambling](#)
- [Genetic Predisposition to Disease](#)
- [Genetics](#)
- [Heroin Dependence](#)
- [Hypertension](#)
- [Learning Disorders](#)
- [Liver Cirrhosis](#)
- [Mental Disorders](#)
- [Migraine Disorders](#)
- [Mood Disorders](#)
- [Narcolepsy](#)
- [Nausea](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Obsessive-Compulsive Disorder](#)

- [Ovarian Failure](#)
- [Panic Disorder](#)
- [Personality Assessment](#)
- [Personality Disorders](#)
- [Personality Tests](#)
- [Polycystic Ovary Syndrome](#)
- [Premenstrual Syndrome](#)
- [Prenatal Exposure Delayed Effects](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Psychomotor Agitation](#)
- [Psychotic Disorders](#)
- [Puberty](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Scoliosis](#)
- [Somatoform Disorders](#)
- [Stress](#)
- [Substance Withdrawal Syndrome](#)
- [Temporomandibular Joint Disorders](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)