

# Recombinant Human TPH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TPH1-1706H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TPH1 MS Standard C13 and N15-labeled recombinant protein (NP_004170) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 50.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | <p>MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLLHIESRKSRRNSE<br/> FEIFVDCDINREQLNDFHLLKSHTNVLSVNLDPDNFTLKEDGMETVPWFPPKISDLDH<br/> CANRVLMYGSELDADHPGFKDNVYRKRRKYFADLAMNYKHGDPPIPKVEFTEEEIKT<br/> WGTVFQELNKLYPTHACREYLKLNPLLSKYCGYREDNIPQLEDVSNFLKERTGFSIR<br/> PVAGYLSPRDFLSGLAFRVFHCTQYVRHSSDPFYTPEPDTCHELLGHVPLLAEPSFA<br/> QFSQEIGLASLGASEEAVQKLATCYFFTVFGLCKQDGQLRVFGAGLLSSISELKHAL<br/> SGHAKVKPFDPKITCKQECLITTFQDVYFVSESFEDAKEKMREFTKTIKRPFGVKYNP</p> |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
|                       | YTRSIQILKDTKSITSAMNELQHDLDVVSDALAKVSRKPSITRTRPLEQKLISEEDLAA<br>NDILDYKDDDDKV               |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TPH1 tryptophan hydroxylase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b> | TPH1                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | TPH1; tryptophan hydroxylase 1; TPH, TPRH, tryptophan hydroxylase (tryptophan 5 monooxygenase); tryptophan 5-hydroxylase 1; tryptophan 5 monooxygenase; L-tryptophan hydroxylase; tryptophan 5-monooxygenase 1; indoleacetic acid-5-hydroxylase; tryptophan hydroxylase (tryptophan 5-monooxygenase); TPRH; TRPH; MGC119994; |
| <b>Gene ID</b>         | 7166                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_004179                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_004170                                                                                                                                                                                                                                                                                                                    |

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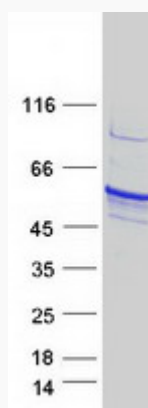
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SDS-PAGE



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