

## Product datasheet for PH321254

### Tryptophan Hydroxylase (TPH1) (NM\_004179) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | TPH1 MS Standard C13 and N15-labeled recombinant protein (NP_004170) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC221254   |
| Predicted MW:                         | 50.8 kDa   |
| Protein Sequence:                     | >RC221254 representing NM_004179<br>Red=Cloning site Green=Tags(s)   |

MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLHIESRKSRRNSEFEIFVDCDINR  
EQLNDIFHLLKSHTNVLSVNLDPNFTLKEDGMETVPWFPKKISDLDHCANRVLMYGSELDADHPGFKDNV  
YRKRKYFADLAMNYKHGDPIPKVEFTEEEIKTWGTVFQELNKLYPHACREYLKLNPLLSKYCGYREDN  
IPQLEDVSNFLKERTGFSIRPVAGYLSRDFLSGLAFRVFCHTQYVRHSSDPFYTPEDTCELLGHVPL  
LAEPSFAQFSQEI GLASLGASEEAVQKLATCYFFTFVEFGLCKQDQQLRVFGAGLLSSI SELKHALSGHAK  
VKPFDPKITCKQECLITTFQDVYFVSESFEDAKEKMREFTKTIKRPFGVKYNPYTRSIQILKDKTSITSA  
MNELQHDLDDVSDALAKVSRKPSI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:          | <u><a href="#">NP_004170</a></u>   |
| RefSeq Size:     | 1335   |
| RefSeq ORF:      | 1332   |
| Synonyms:        | TPRH; TRPH   |



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Locus ID: 7166

UniProt ID: [P17752](#)

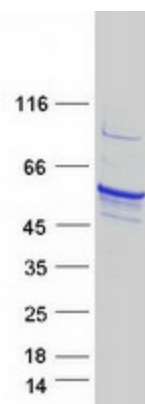
Cytogenetics: 11p15.1

**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.[provided by RefSeq, Apr 2009]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Tryptophan metabolism

### Product images:



Coomassie blue staining of purified TPH1 protein (Cat# [TP321254]). The protein was produced from HEK293T cells transfected with TPH1 cDNA clone (Cat# [RC221254]) using MegaTran 2.0 (Cat# [TT210002]).