

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

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

SPECIFICATION

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

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

GENE INFORMATION

Gene Name	TPH1 tryptophan hydroxylase 1 [Homo sapiens (human)]
Official Symbol	TPH1
Synonyms	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;
Gene ID	7166
mRNA Refseq	NM_004179
Protein Refseq	NP_004170

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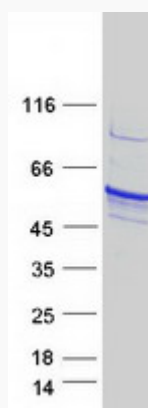
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MIM 191060

UniProt ID P17752

SDS-PAGE



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