

Recombinant Full Length Human TPH1 Protein, C-Flag-tagged

Cat. No. TPH1-913HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TPH1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	50.8 kDa
AA Sequence	MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLLHIESRKSRRNSE FEIFVDCDINR EQLNDIFHLLKSHTNVLSVNLPDNFTLKEDGMETVPWFPPKISDLDH CANRVLMYGSELDADHPGFKDNV YRKRRKYFADLAMNYKHGDPIPKVEFTEEEIKT WGTVFQELNKLYPTHACREYLKNLPLLSKYCGYREDN IPQLEDVSNFLKERTGFSIR PVAGYLSPRDFLSGLAFRVFHCTQYVRHSSDPFYTPEPDTCHELLGHVPL LAEPSF AQFSQEIGLASLGASEEAVQKLATCYFFTVEFGLCKQDGQLRVFGAGLLSSISELKH ALSGHAK VKPFDPKITCKQECLITTFQDVYFVSESFEDAKEKMREFTKTIKRPFGVKY

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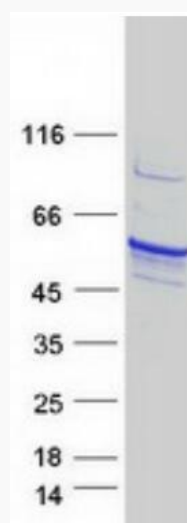
	NPYTRSIQILKDTKSITSA MNELQHLDLVVSDALAKVSRKPSITRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Tryptophan metabolism
Full Length	Full L.
GENE INFORMATION	
Gene Name	TPH1 tryptophan hydroxylase 1 [Homo sapiens (human)]
Official Symbol	TPH1
Synonyms	TPRH; TRPH
Gene ID	7166

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mRNA Refseq	NM_004179.3
Protein Refseq	NP_004170.1
MIM	191060
UniProt ID	P17752



Coomassie blue staining of purified TPH1 protein.

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