

Recombinant Full Length Human TPH2 Protein, C-Flag-tagged

Cat. No. TPH2-1148HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TPH2 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 pterin-dependent aromatic 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 may be associated with psychiatric diseases such as bipolar affective disorder and major depression.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	55.9 kDa
AA Sequence	MQPAMMMFSSKYWARRGFS LDSAVPEEHQLLGSSTLNKPNSGKNDDKGNKGSSK REAATESGKTAVVFS LKNEVGGLVKALRLFQEKRVNMVHIESRKSRRRSSEVEIFVD CECGKTEFNELIQLLK FQTTIVTLNPPEN IWTEEEELEDVPWFPRKISELDKCSHRVL MYGSELDADHPGFKDNVYRQRRKYFVDVAMGYKYGQPIPRV EYTEEETKTWGVV FRELSKLYPTHACREYLKNFPLLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVA G YLSPRDFLAGLAYRVFHCTQYIRHGSDPLYTPEPDTCHELLGHVPLLADPKFAQFS QEIGLASLGASDED VQKLATCYFFTIEFGLCKQEGQLRAYGAGLLSSIGELKHALSD KACVKAFDPKTTCLQECLITTFQEAYF VSESFEEAKEKMRDFAKSITRPFSVYFNPY

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	TQSIEILKDTRSIENVVQDLRSDLNTVCDALNKMNQYLGITRTRPLEQKLISEEDLAAN DILDYKDDDDKV
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	TPH2 tryptophan hydroxylase 2 [Homo sapiens (human)]
Official Symbol	TPH2
Synonyms	NTPH; ADHD7
Gene ID	121278

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mRNA Refseq	NM_173353.4
Protein Refseq	NP_775489.2
MIM	607478
UniProt ID	Q8IWU9

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