

Recombinant Human TPH2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TPH2-2024H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TPH2 MS Standard C13 and N15-labeled recombinant protein (NP_775489) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	56.1 kDa
AA Sequence	MQPAMMMFSSKYWARRGFSLDSAVPEEHQLLGSSTLNKPNKNSGKNDDKGNKGSSK REAATESGKTAVVFSLKNEVGGLVKALRLFQEKRVNMVHIESRKSRRRSSEVEIFVD CECGKTEFNELIQLLKFTTIVTLNPPENIWTEEELEDVPWFPRKISELDKCSHRVL MYGSELDADHPGFKDNVYRQRRKYFVDVAMGYKYGQPIPRVEYTEETKTWGVVF RELSKLYPTHACREYLKNFPLLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAG YLSPRDFLAGLAYRVFHCTQYIRHGSDPLYTPEPDTCHELLGHVPLLADPKFAQFSQ EIGLASLGASDEDVQKLATCYFFTIEFGLCKQEGQLRAYGAGLLSSIGELKHALSDKA CVKAFDPKTTCLQECLITTFQEAYFVSESFEAAKEKMRDFAKSITRPFSVYFNPYTQS

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	IEILKDTRSIENVVQDLRSDLNTVCDALNKMNQYLGITRTRPLEQKLISEEDLAANDILD YKDDDDKV
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	TPH2 tryptophan hydroxylase 2 [Homo sapiens (human)]
Official Symbol	TPH2
Synonyms	TPH2; tryptophan hydroxylase 2; tryptophan 5-hydroxylase 2; FLJ37295; NTPH; tryptophan 5-monooxygenase 2; neuronal tryptophan hydroxylase; ADHD7; MGC138871; MGC138872;
Gene ID	121278
mRNA Refseq	NM_173353
Protein Refseq	NP_775489
MIM	607478

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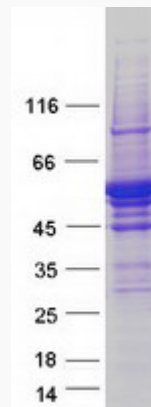
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UniProt ID

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SDS-PAGE

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