

Recombinant Mouse Tph1 Protein, Myc/DDK-tagged

Cat. No. Tph1-6594M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length tryptophan hydroxylase 1 (Tph1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a member of the bipterin-dependent aromatic amino acid hydroxylase family. The encoded protein is one of two tryptophan hydroxylase enzymes that catalyze the first and rate limiting step in the biosynthesis of the hormone and neurotransmitter, serotonin. This gene is expressed in peripheral organs, while tryptophan hydroxylase 2 is expressed in neurons. The encoded protein is involved in the development of hypoxia-induced elevations in pulmonary pressures and pulmonary vascular remodeling, and has also been implicated as a regulator of immune tolerance. Disruption of this gene is associated with cardiac dysfunction. Alternative splicing results in multiple transcript variants.
Molecular Mass	51.3 kDa
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 after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Tph1 tryptophan hydroxylase 1 [Mus musculus (house mouse)]
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Official Symbol	Tph1
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Synonyms	TPH1; tryptophan hydroxylase 1; tryptophan 5-hydroxylase 1; tryptophan 5-monooxygenase 1; Tph
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Gene ID	21990
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mRNA Refseq	NM_009414
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Protein Refseq	NP_033440
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UniProt ID	P17532
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