

Recombinant Human DBH

Cat. No. DBH-26886TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 494-603 of Human Dopamine beta Hydroxylase with an N terminal proprietary tag: Predicted MWt 37.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. It is present in the synaptic vesicles of postganglionic sympathetic neurons and converts dopamine to norepinephrine. It exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	DAGFLQKYFHLINRFNNEVDCTCPQASVSQQFTSVPWNSF NRDVLKALYSFAPISM HCNKSSAVRFQGEWNLQPLPKVIS TLEPTPQCPTSQGRSPAGPTVVSIGGGKG
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Sequence Similarities	Belongs to the copper type II ascorbate-dependent monooxygenase family. Contains 1 DOMON domain.
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GENE INFORMATION

Gene Name	DBH dopamine beta-hydroxylase (dopamine beta-monooxygenase) [Homo sapiens]
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Official Symbol	DBH
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Synonyms	DBH; dopamine beta-hydroxylase (dopamine beta-monooxygenase); dopamine beta-hydroxylase; DBM;
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Gene ID	1621
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mRNA Refseq	NM_000787
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Protein Refseq	NP_000778
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MIM	609312
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Uniprot ID	P09172
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Chromosome Location	9q34
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Pathway	Amine-derived hormones, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Catecholamine biosynthesis, organism-specific biosystem; Catecholamine biosynthesis, tyrosine => dopamine =>
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Function

L-ascorbic acid binding; catalytic activity; copper ion binding; dopamine beta-monooxygenase activity; metal ion binding;

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