

# Recombinant Human DBH

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment corresponding to amino acids 494-603 of Human Dopamine beta Hydroxylase with an N terminal proprietary tag: Predicted MWt 37.73 kDa.                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 110 amino acids                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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. |
| <b>Molecular Weight</b> | 37.730kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                           |

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|                                 |                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequences of amino acids</b> | DAGFLQKYFHLINRFNNEVDCTCPQASVSQQFTSVPWNSF NRDVLKALYSFAPISM<br>HCNKSSAVRFQGEWNLQPLPKVIS TLEPTPQCPTSQGRSPAGPTVVSIGGGKG                                                                                                      |
| <b>Sequence Similarities</b>    | Belongs to the copper type II ascorbate-dependent monooxygenase family.Contains 1 DOMON domain.                                                                                                                          |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                          |
| <b>Gene Name</b>                | DBH dopamine beta-hydroxylase (dopamine beta-monooxygenase) [ Homo sapiens ]                                                                                                                                             |
| <b>Official Symbol</b>          | DBH                                                                                                                                                                                                                      |
| <b>Synonyms</b>                 | DBH; dopamine beta-hydroxylase (dopamine beta-monooxygenase); dopamine beta-hydroxylase; DBM;                                                                                                                            |
| <b>Gene ID</b>                  | 1621                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>              | NM_000787                                                                                                                                                                                                                |
| <b>Protein Refseq</b>           | NP_000778                                                                                                                                                                                                                |
| <b>MIM</b>                      | 609312                                                                                                                                                                                                                   |
| <b>Uniprot ID</b>               | P09172                                                                                                                                                                                                                   |
| <b>Chromosome Location</b>      | 9q34                                                                                                                                                                                                                     |
| <b>Pathway</b>                  | Amine-derived hormones, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Catecholamine biosynthesis, organism-specific biosystem; Catecholamine biosynthesis, tyrosine => dopamine => |

**Function**

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

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