

## Recombinant Human DBH, GST-tagged

**Cat. No.** DBH-11841H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Human DBH protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | C-term-336a.a.                                                                                                                                                                                                                                                                                                                                                                      |
| <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>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                   |

### GENE INFORMATION

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b> | DBH dopamine beta-hydroxylase (dopamine beta-monoxygenase) [ Homo sapiens ] |
|------------------|-----------------------------------------------------------------------------|

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 => noradrenaline => adrenaline, organism-specific biosystem; |
| <b>Function</b>            | L-ascorbic acid binding; catalytic activity; copper ion binding; dopamine beta-monooxygenase activity; metal ion binding;                                                                                                                                                          |

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