

Recombinant Human DBH, GST-tagged

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

SPECIFICATION

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

GENE INFORMATION

Gene Name	DBH dopamine beta-hydroxylase (dopamine beta-monoxygenase) [Homo sapiens]
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Official Symbol	DBH
Synonyms	DBH; dopamine beta-hydroxylase (dopamine beta-monooxygenase); dopamine beta-hydroxylase; DBM;
Gene ID	1621
mRNA Refseq	NM_000787
Protein Refseq	NP_000778
MIM	609312
UniProt ID	P09172
Chromosome Location	9q34
Pathway	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;
Function	L-ascorbic acid binding; catalytic activity; copper ion binding; dopamine beta-monooxygenase activity; metal ion binding;

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