

Product datasheet for **TP312355**

Dopamine beta Hydroxylase (DBH) (NM_000787) Human Recombinant Protein

Product data:

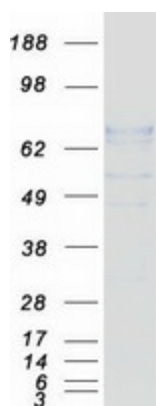
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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human dopamine beta-hydroxylase (dopamine beta-monooxygenase) (DBH), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC212355 representing NM_000787 Red =Cloning site Green =Tags(s) |
| | <p>MPALSRWASLPGPSMREAAFMYSTAVAIFLVILVAALQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQE AIHFQLLVRRKAGVLFGMSDRGELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPPQDDYQLLQVQR TP EGLTLLFKRPFGTCDPKDYLIXDGTVHLVYGILEEPFRSLEAINGSGQLQMGLQRVQLLKPNIPPELPSD ACTMEVQAPNIQIPSQETTYWCYIKELPKGFSRHHIIKYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFS GPCDSKMKPDRLNYCRHVLAAWALGAKAFYYP EEAGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIR LYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGYCTDKCTQLALPPSGIHIFASQLHHTLTGRKV VTVLVRDGREWEIVNQDNHYSHPHFQEIRMLKKVSVHPGDVLITSCTYNTEDRELATVGGFGILEEMCVN YVHYYPQTQLELCKSAVDAGFLQKYFHLINRFNNEVDVCTCPQASVSQFTSVPWNSFNRDVLKALYSFAP ISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTPQCPTSQGRSPAGPTVVSIGGGKG</p> <p>SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag: | C-Myc/DDK |
| Predicted MW: | 64.9 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_000778</u> |
| Locus ID: | 1621 |
| UniProt ID: | <u>P09172</u> |
| RefSeq Size: | 2812 |
| Cytogenetics: | 9q34.2 |
| RefSeq ORF: | 1851 |
| Synonyms: | DBM; ORTHYP1 |
| Summary: | The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. The encoded protein, expressed in neurosecretory vesicles and chromaffin granules of the adrenal medulla, catalyzes the conversion of dopamine to norepinephrine, which functions as both a hormone and as the main neurotransmitter of the sympathetic nervous system. The enzyme encoded by this gene exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. Mutations in this gene cause dopamine beta-hydroxylase deficiency in human patients, characterized by deficits in autonomic and cardiovascular function, including hypotension and ptosis. Polymorphisms in this gene may play a role in a variety of psychiatric disorders. [provided by RefSeq, Aug 2017] |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| Protein Pathways: | Metabolic pathways, Tyrosine metabolism |

Product images:



Coomassie blue staining of purified DBH protein (Cat# TP312355). The protein was produced from HEK293T cells transfected with DBH cDNA clone (Cat# [RC212355]) using MegaTran 2.0 (Cat# [TT210002]).