

## Product datasheet for **TP312355L**

### Dopamine beta Hydroxylase (DBH) (NM\_000787) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human dopamine beta-hydroxylase (dopamine beta-monoxygenase) (DBH), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212355 representing NM_000787 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPALSRWASLPGSPMREAAFMYSTAVAIFLVILVAALQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQE  
AIHFQLLVRRKAGVLFMGMSDRGELENADLVVLWTDGDTAYFADAWSDQKQIHLDPQQDYQLLQVQRTPT  
EGLTLLFKRPFGTCDPKDYLIXDGTVHLVYGILEEPFRSLEAINGSGLQMGLQRVQLLKPNIPEPELPSD  
ACTMEVQAPNIQIPSQETTYWCYIKELPKGFSRHIIKYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFS  
GPCDSKMKPDRLNYCRHVLAAWALGAKAFYYPEEAGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIR  
LYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGYCTDKCTQLALPPSGIHIFASQLHHTLTGRKV  
VTVLVRDGREWEIVNQDNHYSHPHFQEIRMLKKVSVHPGDVLITSCTYNTEDRELATVGGFGILEEMCVN  
YVHYYPQTQLELCKSAVDAGFLQKYFHLINRFNNEVDVCTCPQASVSQQFTSVPWNSFNRDVLKALYSFAP  
ISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTQCPTSQGRSPAGPTVVSIGGGKG

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

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:** [NP\\_000778](#)

**Locus ID:** 1621

**UniProt ID:** [P09172](#)

**RefSeq Size:** 2812

**Cytogenetics:** 9q34.2

**RefSeq ORF:** 1851

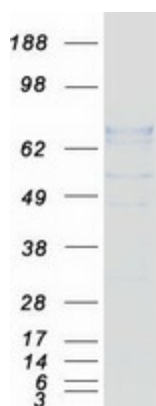
**Synonyms:** DBM; ORTHYP1

**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]).