

Recombinant Full Length Human dopamine beta-hydroxylase Protein, His tagged

Cat. No. DBH-15HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human dopamine beta-hydroxylase Protein (1-617aa) with C His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-617aa
Description	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.
Tag	C-His
Molecular Mass	66 kDa

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AA Sequence

LQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQEAIHFQLLVRRLKAGVLFGMSDRG
 ELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPQQDYQLLQVQRTPEGLTLLFKR
 PFGTCDPKDYLIEDGTVHLVYGILEEPFRSLEAINSGSLQMGLQRVQLLKPNIPPEL
 PSDACTMEVQAPNIQIPSQETTYWCYIKELPKGFSRHHIIKYEPIVTKGNEALVHHME
 VFQCAPEMDSVPHFSGPCDSKMKPDRLNYCRHVLAAWALGAKAFYYPEEAGLAFG
 GPGSSRYLRLEVHYHNPLVIEGRNDSSGIRLYYTAKLRRFNAGIMELGLVYTPVMAIP
 PRETAFILTGYCTDKCTQLALPPSGIHIFASQLHHTLTGRKVTVLVRDGREWEIVNQ
 DNHYSPHFQEIRMLKKVSVHPGDVLITSCTYNTEDRELATVGGFGILEEMCVNYVH
 YYPQTQLELCKSAVDAGFLQKYFHLINRFNNEVDVCTCPQASVSQQFTSVPWNSFNR
 DVLKALYSFAPISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTQCPTSQGRSPA
 GPTVVSIGGGKGHHHHHHHH

Endotoxin

< 1 EU/μg by LAL

Purity

> 90% by SDS-PAGE

Storage

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer

Sterile PBS, pH 7.4

Concentration

0.68 mg/mL by BCA

GENE INFORMATION
Gene Name

DBH dopamine beta-hydroxylase [Homo sapiens (human)]

Official Symbol

DBH

Synonyms

DBH; dopamine beta-hydroxylase (dopamine beta-monooxygenase); dopamine beta-hydroxylase; DBM;

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Gene ID	1621
mRNA Refseq	NM_000787
Protein Refseq	NP_000778
MIM	609312
UniProt ID	P09172

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