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Product datasheet for PH312355

Dopamine beta Hydroxylase (DBH) (NM_000787) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DBH MS Standard C13 and N15-labeled recombinant protein (NP_000778)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212355
Predicted MW:	69.06 kDa
Protein Sequence:	>RC212355 representing NM_000787 Red=Cloning site Green=Tags(s) MPALSRWASLPGPSMREAAFMYSTAVAIFLVILVAALQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQE AIHFQLLVRRLKAGVLFGMSDRGELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPQQDYQLLQVQRTP EGLTLLFKRPFGTCDPKDYLIXDGTVHLVYGILEEPFRSLEAINGSGLQMGLQRVQLLKPNIPEPELPSD ACTMEVQAPNIQIPSQETTYWCYIKELPKGFSRHHIIKYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFS GPCDSKMKPDRLNYCRHVLAAWALGAKAFYYPEEAGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIR LYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGYCTDKCTQLALPPSGIHIFASQLHTHLTGRKV VTVLVRDGREWEIVNQDNHYSPHFQEIRMLKKVVSVHPGDVLITSCTYNTEDRELATVGGFGILEEMCVN YVHYYPQTQLELCKSAVDAGFLQKYFHLINRFNNEDVCTCPQASVSQQFTSVPWNSFNRDVLKALYSFAP ISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTPQCPTSQGRSPAGPTVVSIGGGKG SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000778
RefSeq Size:	2812
RefSeq ORF:	1851

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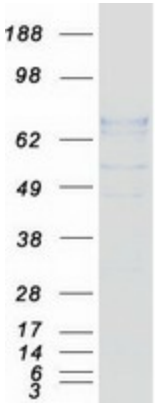
Synonyms:	DBM; ORTHYP1
Locus ID:	1621
UniProt ID:	P09172
Cytogenetics:	9q34.2
Summary:	The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. The encoded protein, expressed in neuroscretory vesicles and chromaffin granules of the 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 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-hydroxylate 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]).