

## Product datasheet for **AR51852PU-S**

### Dopamine beta-hydroxylase (40-617, His-tag) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Dopamine beta-hydroxylase (40-617, His-tag) human recombinant protein, 50 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MSAPRESPLP YHIPLDPEGS LELSWNVSYT QEAIHFQLLV RRLKAGVLFG MSDRGELENA DLVVLWTDGD TAYFADAWSD QKGQIHLDPO QDYQLLQVQR TPEGLTLLFK RPFGTCDPKD YLIEDGTVHL VYGILEEPFR SLEAINSGSL QMGLQRVQLL KPNIPPELPL SDACTMEVQA PNIQIPSQET TYWCYIKELP KGFSRHHIHK YEPIVTKGNE ALVHHMEVFQ CAPEMDSVPH FSGPCDSKMK PDRLNYCRHV LAAWALGAKA FYYPEEAGLA FGGPGSSRYL RLEVHYHNPL VIEGRNDSSG IRLYYTAKLR RFNAGIMELG LVYTPVMAIP PRETAFILTG YCTDKCTQLA LPPSGIHIFA SQLHHTLTGR KVVTVLVRDG REWEIVNQDN HYSPLHFQIR MLKKVSVHP GDVLITSCTY NTEDELATV GGFGILEEMC VNYVHYYPQT QLELCKSAVD AGFLQKYFHL INRFNEDVC TCPQASVSQQ FTSVPWNSFN RDVLKALYSF APISMHCNKS SAVRFQGEWN LQPLPKVIST LEEPTQCPT SQGRSPAGPT VVSIGGGKG
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	67.2 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>85% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: Liquid, In Phosphate buffered saline (pH 7.4) containing 10% glycerol, 1 mM DTT
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human DBH, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000778</a>



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Locus ID: 1621

UniProt ID: [P09172](#)

Cytogenetics: 9q34.2

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:

