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## Product datasheet for AR51852PU-S

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

## **Product data:**

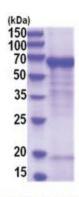
| Product Type:                            | Recombinant Proteins  |
|--|---|
| Description:                             | Dopamine beta-hydroxylase (40-617, His-tag) human recombinant protein, 50 µg  |
| Species:                                 | Human   |
| Expression Host:                         | E. coli   |
| Expression cDNA Clone<br>or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MSAPRESPLP YHIPLDPEGS LELSWNVSYT QEAIHFQLLV<br>RRLKAGVLFG MSDRGELENA DLVVLWTDGD TAYFADAWSD QKGQIHLDPQ QDYQLLQVQR<br>TPEGLTLLFK RPFGTCDPKD YLIEDGTVHL VYGILEEPFR SLEAINGSGL QMGLQRVQLL KPNIPEPELP<br>SDACTMEVQA PNIQIPSQET TYWCYIKELP KGFSRHHIIK YEPIVTKGNE ALVHHMEVFQ<br>CAPEMDSVPH FSGPCDSKMK PDRLNYCRHV LAAWALGAKA FYYPEEAGLA FGGPGSSRYL<br>RLEVHYHNPL VIEGRNDSSG IRLYYTAKLR RFNAGIMELG LVYTPVMAIP PRETAFILTG YCTDKCTQLA<br>LPPSGIHIFA SQLHTHLTGR KVVTVLVRDG REWEIVNQDN HYSPHFQEIR MLKKVVSVHP<br>GDVLITSCTY NTEDRELATV GGFGILEEMC VNYVHYYPQT QLELCKSAVD AGFLQKYFHL<br>INRFNNEDVC TCPQASVSQQ FTSVPWNSFN RDVLKALYSF APISMHCNKS SAVRFQGEWN<br>LQPLPKVIST LEEPTPQCPT SQGRSPAGPT VVSIGGGKG |
| Tag:                                     | His-tag   |
| Predicted MW:                            | 67.2 kDa  |
| Concentration:                           | lot specific  |
| Purity:                                  | >85% by SDS - PAGE  |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: Liquid, In Phosphate buffered saline (pH 7.4) containing 10% glycerol, 1 mM<br>DTT   |
| Preparation:                             | Liquid purified protein   |
| Protein Description:                     | Recombinant human DBH, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.  |
| Storage:                                 | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.  |
| Stability:                               | Shelf life: one year from despatch.   |
| RefSeq:                                  | <u>NP 000778</u>  |
|  |   |



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|                  | Dopamine beta-hydroxylase (40-617, His-tag) Human Protein – AR51852PU-S  |
|------------------|--|
| Locus ID:        | 1621   |
| UniProt ID:      | <u>P09172</u>  |
| Cytogenetics:    | 9q34.2   |
| Synonyms:        | DBM; ORTHYP1   |
| Summary:         | The protein encoded by this gene is an oxidoreductase belonging to the copper type II,<br>ascorbate-dependent monooxygenase family. The encoded protein, expressed in<br>neuroscretory vesicles and chromaffin granules of the adrenal medulla, catalyzes the<br>conversion of dopamine to norepinephrine, which functions as both a hormone and as the<br>main neurotransmitter of the sympathetic nervous system. The enzyme encoded by this gene<br>exists exists in both soluble and membrane-bound forms, depending on the absence or<br>presence, respectively, of a signal peptide. Mutations in this gene cause dopamine beta-<br>hydroxylate deficiency in human patients, characterized by deficits in autonomic and<br>cardiovascular function, including hypotension and ptosis. Polymorphisms in this gene may<br>play a role in a variety of psychiatric disorders. [provided by RefSeq, Aug 2017] |
| Protein Families | : Druggable Genome, Secreted Protein, Transmembrane  |
| Protein Pathway  | vs: Metabolic pathways, Tyrosine metabolism  |

## Product images:



15% SDS-PAGE (3ug)

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