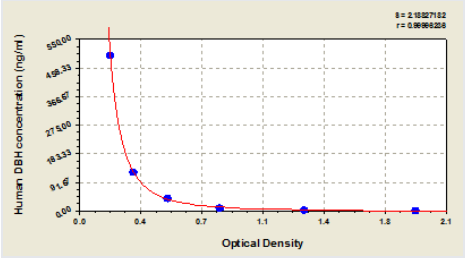
Dopamine Beta-Hydroxylase (Dopamine Beta-Monooxygenase) (DBH) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	dopamine beta-hydroxylase (dopamine beta-monooxygenase) (DBH), ELISA Kit
Full Product Name	Human dopamine-beta-hydroxylase, DBH ELISA Kit
Product Gene Name	DBH elisa kit
Product Synonym Names	Human dopamine-beta-hydroxylase; DBH ELISA Kit; RP11-317B10.1; DBM; dopamine beta hydroxylase; dopamine beta-hydroxylase (dopamine beta-monooxygenase)
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, tissue homogenates
Detection Range	2.5 ng/ml -500 ng/ml.
Sensitivity	The minimum detectable dose of human DBH is typically less than 1.25 ng/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest human DBH concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Specificity	This assay has high sensitivity and excellent specificity for detection of human DBH. No significant cross-reactivity or interference between human DBH and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<15%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<15%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	69,065 Da
OMIM	609312
3D Structure	ModBase 3D Structure for P09172
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DBH elisa kit	**Principle of the assay:** This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with goat-anti-rabbit antibody. Standards or samples are added to the appropriate microtiter plate wells with an antibody specific for DBH and Horseradish Peroxidase (HRP) conjugated DBH. The competitive inhibition reaction is launched between with HRP labeled DBH and unlabeled DBH with the antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of DBH in the sample. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of DBH elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for DBH purchase	MBS703682 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the dopamine beta-hydroxylase (dopamine beta-monooxygenase) (DBH) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DBH. The ELISA analytical biochemical technique of the MBS703682 kit is based on DBH antibody-DBH antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DBH antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DBH. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of DBH elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DBH. It may not necessarily be applicable to this product.

NCBI GI #	116534900
NCBI GeneID	1621
NCBI Accession #	NP_000778.3
UniProt Primary Accession #	P09172
UniProt Secondary Accession #	Q5T381; Q96AG2
UniProt Related Accession #	P09172
GenBank Nucleotide #	NM_000787.3
NCBI Official Full Name	dopamine beta-hydroxylase
NCBI Official Synonym Full Names	dopamine beta-hydroxylase (dopamine beta-monooxygenase)
NCBI Official Symbol	DBH
NCBI Official Synonym Symbols	DBM
UniProt Protein Name	Dopamine beta-hydroxylase
UniProt Synonym Protein Names	Dopamine beta-monooxygenaseCleaved into the following chain:Soluble dopamine beta-hydroxylase
Protein Family	Dopamine beta-hydroxylase
UniProt Gene Name	DBH
UniProt Entry Name	DOPO_HUMAN
NCBI Protein Information	dopamine beta-hydroxylase
NCBI Summary for DBH	The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. It is present in the synaptic vesicles of postganglionic sympathetic neurons and converts dopamine to norepinephrine. It exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. [provided by RefSeq, Jul 2008]

UniProt Comments for DBH	**Function:** Conversion of dopamine to noradrenaline. **Catalytic activity:** 3,4-dihydroxyphenethylamine + ascorbate + O2 = noradrenaline + dehydroascorbate + H2O. **Cofactor:** Binds 1 PQQ per subunit.
Research Articles on DBH	**1.** role for DBH promoter variation in long-term renal decline rate
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/dbh-human-elisa-kits/dopamine-beta-hydroxylase-dopamine-beta-monooxygenase/703682