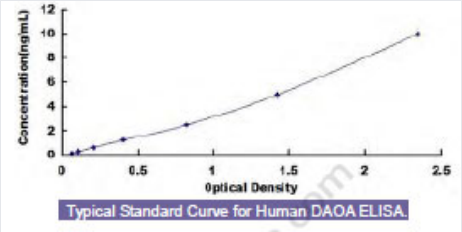
D-Amino Acid Oxidase Activator (DAOA) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	D-amino Acid Oxidase Activator (DAOA), ELISA Kit
Full Product Name	Human D-amino Acid Oxidase Activator (DAOA) ELISA Kit
Product Gene Name	DAOA elisa kit
Product Synonym Names	G72; LG72; SG72
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.061ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of DAOA. No significant cross-reactivity or interference between DAOA and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DAOA were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DAOA were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	14,719 Da
OMIM	AE014294 Genomic DNA
3D Structure	ModBase 3D Structure for P59103
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DAOA elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DAOA in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DAOA. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DAOA. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DAOA, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of DAOA in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DAOA 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 DAOA purchase	MBS451334 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the D-amino Acid Oxidase Activator (DAOA) 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 DAOA. The ELISA analytical biochemical technique of the MBS451334 kit is based on DAOA antibody-DAOA antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DAOA antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DAOA. 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 DAOA elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	240120173
NCBI GeneID	267012
NCBI Accession #	NP_001155284.1
UniProt Primary Accession #	P59103
UniProt Secondary Accession #	Q0VAE6; Q5VX59; Q86Y17; Q8IWM4; A6NKG7
UniProt Related Accession #	P59103
GenBank Nucleotide #	NM_001161812.1
NCBI Official Full Name	D-amino acid oxidase activator isoform 2
NCBI Official Synonym Full Names	D-amino acid oxidase activator
NCBI Official Symbol	DAOA
NCBI Official Synonym Symbols	LG72; SG72
UniProt Protein Name	D-amino acid oxidase activator
UniProt Synonym Protein Names	Protein G72
Protein Family	D-amino acid oxidase activator
UniProt Gene Name	DAOA
UniProt Synonym Gene Names	G72
NCBI Protein Information	D-amino acid oxidase activator
NCBI Summary for DAOA	This gene encodes a protein that may function as an activator of D-amino acid oxidase, which degrades the gliotransmitter D-serine, a potent activator of N-methyl-D-aspartate (NMDA) type glutamate receptors. Studies also suggest that one encoded isoform may play a role in mitochondrial function and dendritic arborization. Polymorphisms in this gene have been implicated in susceptibility to schizophrenia and bipolar affective disorder. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Mar 2011]
UniProt Comments for DAOA	Seems to activate D-amino acid oxidase.

Research Articles on DAOA	**1.** A Mutation in DAOA Modifies the Age of Onset in PSEN1 E280A Alzheimer's Disease. Findings strongly suggest that this new conspicuous functional age of onset modifier within the G72 (DAOA) gene could be pivotal for understanding the genetic basis of Alzheimer's disease.
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/human-elisa-kits/d-amino-acid-oxidase-activator-daoa/451334