Barttin (BSND) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Barttin (BSND), ELISA Kit
Full Product Name	Mouse Barttin (BSND) ELISA Kit
Product Gene Name	BSND elisa kit
Product Synonym Names	BART; DFNB73; MGC119283; MGC119284; MGC119285; barttin; deafness; autosomal recessive 73
Species Reactivity	Mouse
Assay Type	Quantitive Sandwich
Samples	Serum, Plasma, Other Biological Fluids
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse BSND. No significant cross-reactivity or interference between Mouse BSND and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
Molecular Weight	33,813 Da
3D Structure	ModBase 3D Structure for Q8VIM4
Detection Wavelength	450 nm
Intra-assay Precision (Precision within an assay)	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision (Precision between assays)	Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.
CV (%)	= SD/meanX100
Intra-Assay	CV
Inter-Assay	CV
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BSND elisa kit	This assay employs a two-site sandwich ELISA to quantitate BSND in samples. An antibody specific for BSND has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any BSND present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for BSND is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of BSND bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of BSND 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 BSND purchase	MBS2800215 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Barttin (BSND) 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 BSND. The ELISA analytical biochemical technique of the MBS2800215 kit is based on BSND antibody-BSND antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect BSND antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, BSND. 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	91598894
NCBI GeneID	140475
NCBI Accession #	NP_536706.2
UniProt Primary Accession #	Q8VIM4
UniProt Secondary Accession #	Q8C740; Q8CHY0; B1AZI5
UniProt Related Accession #	Q8VIM4
GenBank Nucleotide #	NM_080458.2
NCBI Official Full Name	barttin
NCBI Official Synonym Full Names	barttin CLCNK type accessory beta subunit
NCBI Official Symbol	Bsnd
UniProt Protein Name	Barttin
Protein Family	Barttin
UniProt Gene Name	Bsnd
NCBI Protein Information	barttin
UniProt Comments for BSND	Functions as a beta-subunit for CLCNKA and CLCNKB chloride channels. In the kidney CLCNK/BSND heteromers mediate chloride reabsorption by facilitating its basolateral efflux. In the stria, CLCNK/BSND channels drive potassium secretion by recycling chloride for the basolateral SLC12A2 cotransporter.
Research Articles on BSND	**1.** induction of SGK1, CLC-K1 and barttin by high osmolarity and change in intracellular volume in distal renal tubular cells in vivo and in vitro
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.
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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.

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