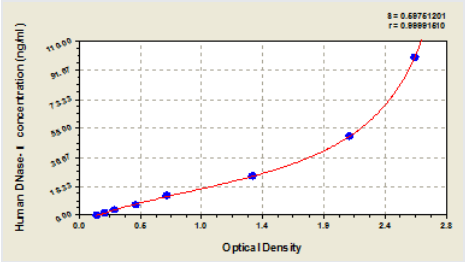
Deoxyribonuclease 1 (DNASE1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	deoxyribonuclease I (DNASE1), ELISA Kit
Full Product Name	Human deoxyribonuclease I , DNase-I ELISA Kit
Product Gene Name	DNASE1 elisa kit
Product Synonym Names	Human deoxyribonuclease I; DNase-I ELISA Kit; DKFZp686H0155; DNL1; DRNI; FLJ38093; FLJ44902; DNase I; lysosomal; Dornase alfa; human urine deoxyribonuclease I; deoxyribonuclease I
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	1.56 ng/ml-100 ng/ml
Sensitivity	< 0.39 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human DNase-I. No significant cross-reactivity or interference between human DNase-I 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%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	31,434 Da
OMIM	gene 152700
3D Structure	ModBase 3D Structure for P24855
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DNASE1 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for DNase-I has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any DNase-I present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DNase-I is added to the wells. After washing, avidin 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 DNase-I bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of DNASE1 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 DNASE1 purchase	MBS700306 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the deoxyribonuclease I (DNASE1) 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 DNASE1. The ELISA analytical biochemical technique of the MBS700306 kit is based on DNASE1 antibody-DNASE1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DNASE1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DNASE1. 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 DNASE1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNASE1. It may not necessarily be applicable to this product.

NCBI GI #	21361254
NCBI GeneID	1773
NCBI Accession #	NP_005214.2
UniProt Primary Accession #	P24855
UniProt Secondary Accession #	Q14UU9; Q14UV0
UniProt Related Accession #	P24855
GenBank Nucleotide #	NM_005223.3
NCBI Official Full Name	deoxyribonuclease-1
NCBI Official Synonym Full Names	deoxyribonuclease I
NCBI Official Symbol	DNASE1
NCBI Official Synonym Symbols	DNL1; DRNI
UniProt Protein Name	Deoxyribonuclease-1
UniProt Synonym Protein Names	Deoxyribonuclease I; DNase I; INN: Dornase alfa
Protein Family	Deoxyribonuclease
UniProt Gene Name	DNASE1
UniProt Synonym Gene Names	DNL1; DRNI; DNase I
UniProt Entry Name	DNAS1_HUMAN
NCBI Protein Information	deoxyribonuclease-1; Dornase alfa; DNase I, lysosomal; human urine deoxyribonuclease I
NCBI Summary for DNASE1	This gene encodes a member of the DNase family. This protein is stored in the zymogen granules of the nuclear envelope and functions by cleaving DNA in an endonucleolytic manner. At least six autosomal codominant alleles have been characterized, DNASE1*1 through DNASE1*6, and the sequence of DNASE1*2 represented in this record. Mutations in this gene have been associated with systemic lupus erythematosus (SLE), an autoimmune disease. A recombinant form of this protein is used to treat the one of the symptoms of cystic fibrosis by hydrolyzing the extracellular DNA in sputum and reducing its viscosity. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for DNASE1	**Function:** Among other functions, seems to be involved in cell death by apoptosis. Binds specifically to G-actin and blocks actin polymerization **Catalytic activity:** Endonucleolytic cleavage to 5'-phosphodinucleotide and 5'-phosphooligonucleotide end-products. **Cofactor:** Divalent cations. Prefers calcium or magnesium.
Research Articles on DNASE1	**1.** DNase I activity in systemic lupus erythematosus patients was lower than in healthy controls

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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