

Human Dystrophia Myotonica Protein Kinase (DMPK) ELISA Kit | DMPK elisa kit

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CATALOG #
AAA151295

REACTIVITY
Human

PRODUCT SYNONYMS

Dystrophia Myotonica Protein Kinase (DMPK); Human Dystrophia Myotonica Protein Kinase (DMPK) ELISA Kit; DMPK/Dystrophia Myotonica Protein Kinase; DM; DM1; DM1PK; DMK; MDPK; MT-PK; Myotonic Dystrophy Protein Kinase; Myotonin-Protein Kinase; Dystrophia Myotonica 1; Thymopoietin Homolog; DMPK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of DMPK. No significant cross-reactivity or interference between DMPK and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DMPK were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DMPK were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

ADDITIONAL INFORMATION

Related Product Information for DMPK elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DMPK. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to DMPK. 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 DMPK, 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 DMPK in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DMPK in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for DMPK elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	126131093
NCBI GeneID	1760
NCBI Accession #	NP_001075029.1
NCBI GenBank Nucleotide #	NM_001081560.1
UniProt Accession #	Q09013; Q16205; Q6P5Z6
Molecular Weight	69,385 Da
NCBI Official Full Name	myotonin-protein kinase isoform 3
NCBI Official Synonym Full Names	dystrophia myotonica-protein kinase
NCBI Official Symbol	DMPK
NCBI Official Synonym Symbols	DM; DM1; DMK; MDPK; DM1PK; MT-PK
NCBI Protein Information	myotonin-protein kinase; DM-kinase; DM protein kinase; DM1 protein kinase; thymopoietin homolog; myotonin protein kinase A; myotonic dystrophy protein kinase; myotonic dystrophy associated protein kinase
UniProt Protein Name	Myotonin-protein kinase
UniProt Gene Name	DMPK
UniProt Synonym Gene Names	DM1PK; MDPK; MT-PK; DMK
UniProt Entry Name	DMPK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/dystrophia-myotonica-protein-kinase-dmpk/151295>