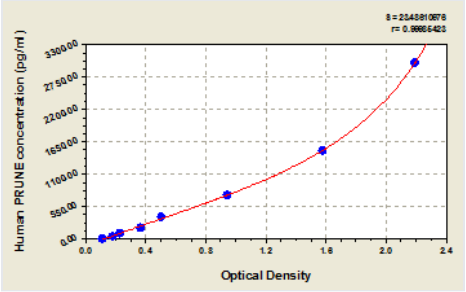
Prune Homolog (Drosophila) (PRUNE) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	prune homolog (Drosophila), ELISA Kit
Full Product Name	Human Protein prune homolog, PRUNE ELISA Kit
Product Gene Name	PRUNE elisa kit
Product Synonym Names	Human Protein prune homolog (PRUNE) ELISA kit; DRES-17; DRES17; HTCD37; Drosophila-related expressed sequence 17; prune; prune homolog (Drosophila)
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, Cell lysates
Detection Range	47 pg/ml -3000 pg/ml.
Sensitivity	The minimum detectable dose of human PRUNE is typically less than 11.75 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein 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 PRUNE. No significant cross-reactivity or interference between human PRUNE 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	50,200 Da
3D Structure	ModBase 3D Structure for Q86TP1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PRUNE elisa kit	**Principle of the Assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for PRUNE has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRUNE present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRUNE 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 PRUNE bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of PRUNE 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 PRUNE purchase	MBS946942 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the prune homolog (Drosophila) 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 PRUNE. The ELISA analytical biochemical technique of the MBS946942 kit is based on PRUNE antibody-PRUNE antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PRUNE antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PRUNE. 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 PRUNE elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	24308263
NCBI GeneID	58497
NCBI Accession #	NP_067045.1
UniProt Primary Accession #	Q86TP1
UniProt Secondary Accession #	Q5SZF9; Q659E5; Q6P4E0; Q8N654; Q96JU5; Q9C071; Q9C072; Q9UIV0; B2RCH8; B4DFL7
UniProt Related Accession #	Q86TP1
GenBank Nucleotide #	NM_021222.1
NCBI Official Full Name	protein prune homolog
NCBI Official Synonym Full Names	prune exopolyphosphatase
NCBI Official Symbol	PRUNE
NCBI Official Synonym Symbols	DRES17; HTCD37; DRES-17
UniProt Protein Name	Protein prune homolog
UniProt Synonym Protein Names	Drosophila-related expressed sequence 17; DRES-17; DRES17; HTcD37
Protein Family	Protein prune
UniProt Gene Name	PRUNE
UniProt Synonym Gene Names	hPrune; DRES-17; DRES17
UniProt Entry Name	PRUNE_HUMAN
NCBI Protein Information	protein prune homolog; Drosophila-related expressed sequence 17
NCBI Summary for PRUNE	This gene encodes a member of the DHH protein superfamily of phosphoesterases. This protein has been found to function as both a nucleotide phosphodiesterase and an exopolyphosphatase. This protein is believed to stimulate cancer progression and metastases through the induction of cell motility. A pseudogene has been identified on chromosome 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

UniProt Comments for PRUNE	PRUNE: Phosphodiesterase (PDE) that has higher activity toward cAMP than cGMP, as substrate. Plays a role in cell proliferation, is able to induce cell motility and acts as a negative regulator of NME1. Belongs to the PPase class C family. Prune subfamily. 7 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.6.1.1; Nucleotide Metabolism - purine; Hydrolase Chromosomal Location of Human Ortholog: 1q21 Cellular Component: focal adhesion; cytoplasm; nucleus Molecular Function: protein binding; inorganic diphosphatase activity; metal ion binding Biological Process: metabolic process
Research Articles on PRUNE	**1.** Data indicate that the D388A and D422A mutant h-Prune proteins interact weakly with Nm23-H1.
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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