

Human Vitamin K-Dependent Protein Z (PROZ) ELISA Kit | PROZ elisa kit

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CATALOG #
AAA331300

REACTIVITY
Human

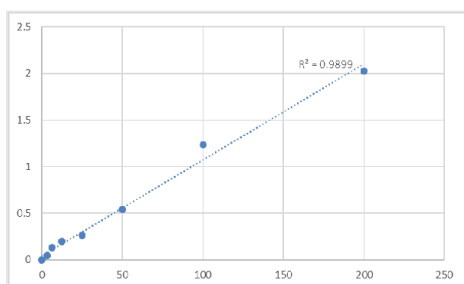
PRODUCT SYNONYMS

Vitamin K-Dependent Protein Z (PROZ); Human Vitamin K-Dependent Protein Z (PROZ) ELISA Kit; PROZ; PZ; protein Z; vitamin K-dependent plasma glycoprotein; PROZ elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Vitamin K-dependent protein Z (PROZ) ELISA Kit has high sensitivity and excellent specificity for detection of Human PROZ. No significant cross-reactivity or interference between Human PROZ and analogues was observed.
Sequence Length	422
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Vitamin K-dependent protein Z (PROZ) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PROZ elisa kit	Description: This Human Vitamin K-dependent protein Z (PROZ) ELISA Kit employs a two-site sandwich ELISA to quantitate PROZ in samples. An antibody specific for PROZ has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PROZ present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PROZ 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 PROZ bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Protein Z is a member of the coagulation cascade, the group of blood proteins that leads to the formation of blood clots. It is vitamin K-dependent, and its functionality is therefore impaired in warfarin therapy. It is a glycoprotein. Structural analysis of protein Z will allow better understanding of its function. From a Ramachandran plot, the secondary structure of Protein Z was determined. The Ramachandran plot utilizes mathematical equations to determine the possible angles of the amino acids within the primary sequence of Protein Z. The possible angles results in a plot of possible secondary structures. The Ramachandran plot for protein Z indicates it will form alpha helices. The final structure, all alpha domain, was determined by x-ray diffraction. It consists of chain A and B, which are both helix-loop-helix motifs.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	371502106
NCBI GeneID	8858
NCBI Accession #	NP_001243063.1
NCBI GenBank Nucleotide #	NP_001243063.1
UniProt Accession #	P22891
NCBI Official Full Name	vitamin K-dependent protein Z isoform 1
NCBI Official Synonym Full Names	protein Z, vitamin K dependent plasma glycoprotein
NCBI Official Symbol	PROZ
NCBI Official Synonym Symbols	PZ
NCBI Protein Information	vitamin K-dependent protein Z
UniProt Protein Name	Vitamin K-dependent protein Z
UniProt Gene Name	PROZ
UniProt Entry Name	PROZ_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://stage.aaabiotech.com/human-elisa-kits/vitamin-k-dependent-protein-z-proz/331300>