

Human Vitamin K1 (VK1) ELISA Kit | VK1 elisa kit

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CATALOG #
AAA330279

REACTIVITY
Human

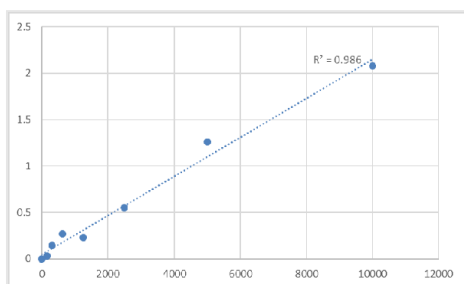
PRODUCT SYNONYMS

Vitamin K1 (VK1); Human Vitamin K1 (VK1) ELISA Kit; VK1; Phylloquinone; Phytonadione; Phytomenadione; VK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Vitamin K1 (VK1) ELISA Kit has high sensitivity and excellent specificity for detection of Human VK1. No significant cross-reactivity or interference between Human VK1 and analogues was observed.
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 K1 (VK1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VK1 elisa kit	Description: This Human Vitamin K1 (VK1) ELISA Kit employs a two-site sandwich ELISA to quantitate VK1 in samples. An antibody specific for VK1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any VK1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VK1 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 VK1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Phylloquinone is a polycyclic aromatic ketone, based on 2-methyl-1,4-naphthoquinone, with a 3-phytyl substituent. It is a fat-soluble vitamin that is stable to air and moisture but decomposes in sunlight. It is found naturally in a wide variety of green plants. It is often called vitamin K1 or phytonadione. Sometimes a distinction is made with phylloquinone considered natural and phytonadione considered synthetic. A stereoisomer of phylloquinone is called vitamin k1. Its best known mechanism of action is as a cofactor in the formation of coagulation factors II (prothrombin), VII, IX and X by the liver. Vitamin K1 is commonly used to treat warfarin toxicity, and an antidote for coumatetralyl. It is also required for the formation of anticoagulant factors protein C and S. Vitamin K is also required bone protein formation.
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/vitamin-k1-vk1/330279>