

Rat Uroporphyrinogen Decarboxylase (UROD) ELISA Kit | UROD elisa kit

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CATALOG #
AAA330156

REACTIVITY
Rat

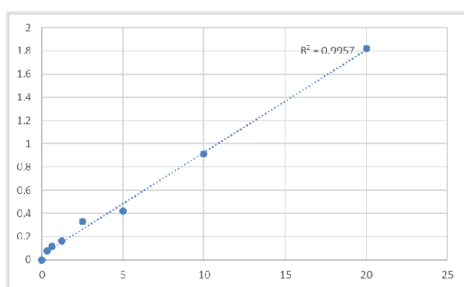
PRODUCT SYNONYMS

Uroporphyrinogen Decarboxylase (UROD); Rat Uroporphyrinogen Decarboxylase (UROD) ELISA Kit; UROD; RP11-69J16.2; PCT; fifth enzyme of heme biosynthetic pathway; fifth enzyme of the heme biosynthetic pathway; uroporphyrinogenI decarboxylase; UROD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Uroporphyrinogen decarboxylase (UROD) ELISA Kit has high sensitivity and excellent specificity for detection of Rat UROD. No significant cross-reactivity or interference between Rat UROD and analogues was observed.
Sequence Length	364
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. Rat Uroporphyrinogen decarboxylase (UROD) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for UROD elisa kit	Description: This Rat Uroporphyrinogen decarboxylase (UROD) ELISA Kit employs a two-site sandwich ELISA to quantitate UROD in samples. An antibody specific for UROD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any UROD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UROD 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 UROD bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: UROD encodes the fifth enzyme of the heme biosynthetic pathway. This enzyme is responsible for catalyzing the conversion of uroporphyrinogen to coproporphyrinogen through the removal of four carboxymethyl side chains. Uroporphyrinogen III decarboxylase (UroD) is a homodimeric enzyme which catalyzes the fifth step in heme biosynthesis: the elimination of carboxyl groups from the four acetate side chains of uroporphyrinogen III to yield coproporphyrinogen III. At low substrate concentrations the reaction is believed to follow an ordered route, with the sequential removal of CO2 from the D, A, B, and C rings, whereas at higher substrate/enzyme levels a random route seems to be operative. The enzyme functions as a dimer in solution, and both the enzymes from human and tobacco have been crystallized and solved at good resolutions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	416892
NCBI GeneID	29421
UniProt Accession #	P32362
NCBI Official Full Name	Uroporphyrinogen decarboxylase
NCBI Official Synonym Full Names	uroporphyrinogen decarboxylase
NCBI Official Symbol	Urod
NCBI Official Synonym Symbols	porphyrinogen carboxy-lyase
NCBI Protein Information	uroporphyrinogen decarboxylase
UniProt Protein Name	Uroporphyrinogen decarboxylase
UniProt Gene Name	Urod
UniProt Synonym Gene Names	UPD; URO-D

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/rat-elisa-kits/uroporphyrinogen-decarboxylase-urod/330156>