

Rat Estrone ELISA Kit | E1 elisa kit

Rat Estrone (E1) ELISA Kit

CATALOG #
AAA55831

REACTIVITY
Rat

PRODUCT SYNONYMS

Estrone; Rat Estrone (E1) ELISA Kit; Oestrone; E1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat Estrone. No significant cross-reactivity or interference between Rat Estrone and analogues was observed.
Sequence Length	382
Samples	Serum, plasma and other biological fluids
Assay Type	Quantitative Competitive
Detection Range	0.4 pmol/mL - 10 pmol/mL
Sensitivity	0.2 pmol/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV(%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for E1 elisa kit

Intended Uses: For the quantitative detection of Rat Estrone (E1) concentration in serum, plasma and other biological fluids.

Principle of the Assay: This assay employs the competitive enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with goat-anti-rabbit antibody. Standards or samples are added to the appropriate microtiter plate wells with an antibody specific for Estrone and Horseradish Peroxidase (HRP) conjugated Estrone. The competitive inhibition reaction is launched between with HRP labeled Estrone and unlabeled Estrone with the antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of Estrone in the sample. The color development is stopped and the intensity of the color is measured.

Background/Introduction: Estrone (also oestrone) is an estrogenic hormone secreted by the ovary as well as adipose tissue. Estrone is one of the three estrogens, which also include estriol and estradiol. Estrone is the least abundant of the three hormones, estradiol is present almost always in the reproductive female body, and estriol is abundant primarily during pregnancy. Estrone is relevant to health and disease states because of its conversion to estrone sulfate, a long-lived derivative. Estrone sulfate acts as a reservoir that can be converted as needed to the more active estradiol. Estrone is synthesized via aromatase from androstenedione, a derivative of progesterone. The conversion consists of the de-methylation of C-19 and the aromaticity of the 'A' ring. This reaction is similar to the conversion of testosterone to estradiol.

NCBI AND UNIPROT INFORMATION

NCBI GI #	358254166
Molecular Weight	43,897 Da
NCBI Official Full Name	estrone sulfotransferase
UniProt Protein Name	Estrone sulfotransferase
UniProt Gene Name	CLF_112599
UniProt Entry Name	G7YML5_CLOSI

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/e1-rat-elisa-kits/estrone/55831>