Human Urocanate hydratase (UROC1) ELISA Kit

Catalog No: #EK5931

Package Size: #EK5931-1 48T #EK5931-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Urocanate hydratase (UROC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ31300; HMFN0320; MGC135007; MGC135008; imidazolonepropionate hydrolase
Accession No.	Q96N76
Uniprot	Q96N76
GeneID	131669;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.119 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate UROC1 in samples. An antibody specific for UROC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyUROC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UROC1 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 UROC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Catabolism of histidine begins with the conversion of histidine to urocanic acid by histidase (HAL). UROC1, or urocanase (EC 4.2.1.49), catalyzes the second step in histidine catabolism, the metabolism of urocanic acid to formiminoglutamic acid.

Espinos et al. (2009) cloned human UROC1. The deduced protein contains a C-terminal catalytic domain with an evolutionarily conserved catalytic arginine (arg450). UROC1 had an apparent molecular mass of 74.8 kD by SDS-PAGE.Using a spectrophotometric assay, Espinos et al. (2009) demonstrated that purified recombinant UROC1 had robust urocanase activity.Espinos et al. (2009) determined that the UROC1 gene contains 20 exons.

Note: This product is for in vitro research use only