Mouse Uricase (UOX) ELISA Kit

Catalog No: #EK11341

Package Size: #EK11341-1 48T #EK11341-2 96T

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

Description

Product Name	Mouse Uricase (UOX) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	UOXP; URICASE;
Accession No.	P25688
Uniprot	P25688
GeneID	22262;
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:31.25-2000 pg/mL

Sensitivity:13.8 pg/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 UOX in samples. An antibody specific for UOX has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyUOX present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UOX 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 UOX bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:A simple purification method of the Bacillus uricase (Uao) was newly developed. The gene coding for Uao with a C-terminal 6-histidine tag (Uao-HT) was constructed and overexpressed. Using the non-specific proteases, such as proteinase K, the tag was easily removed because Uao-HT includes its C-terminal region to be specifically cleaved by them.

Such treatment of Uao-HT with the proteases did not affect its enzymatic properties and enabled us to purify it from the crude extract with a single-step protocol; the cell lysate containing Uao-HT was mixed with the Ni ion-chelating magnetic beads and then the adsorbed enzyme was eluted with the proteinase K-containing buffer after untagged proteins were washed out. The isolated enzyme yielded a single band on SDS-PAGE and was fully active. This method is extremely useful for high-throughput purification of mutants because of compatibility with automation.

Note: This product is for in vitro research use only