Product Datasheet

Mouse Trehalase (TREH) ELISA Kit

Catalog No: #EK6012

Package Size: #EK6012-1 48T #EK6012-2 96T

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

Description

Product Name	Mouse Trehalase (TREH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	MGC129621; TRE; TREA; alpha;alpha-trehalase|alpha;alpha-trehalose glucohydrolase|trehalase
Accession No.	Q9JLT2
Uniprot	Q9JLT2
GeneID	58866;
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:0.625-40 ng/mL

Sensitivity:0.216 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 TREH in samples. An antibody specific for TREH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTREH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TREH 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 TREH bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Trehalose (1-alpha-D-glucopyranosyl alpha-D-glucopyranoside) is widely distributed in nature, being the storage disaccharide of fungi and the blood sugar of insects. Trehalase (EC 3.2.1.28) is an intrinsic glycoprotein of the small intestine and renal brush border membranes that hydrolyzes trehalose to 2 glucose molecules.

The deduced 583-amino acid protein has a calculated molecular mass of 66.6 kD. It has an N-terminal signal peptide, 5 potential N-glycosylation sites, and a C-terminal hydrophobic region for glycosylphosphatidylinositol (GPI) attachment. Northern blot analysis detected a 2.0-kb transcript mainly in kidney, liver, and small intestine.The trehalase signature sequence from amino acids 162 to 175 of mouse Treh shares 100% identity with the corresponding region in human TREH.

Note: This product is for in vitro research use only