

# Mouse Ghrelin O-acyltransferase (MBOAT4) ELISA Kit

Catalog No: #EK9836

Orders: order@signalwayantibody.com

Package Size: #EK9836-1 48T #EK9836-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Ghrelin O-acyltransferase (MBOAT4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	FKSG89; GOAT; OACT4; O-acyltransferase (membrane bound) domain containing 4 ghrelin O-acyltransferase
Accession No.	P0C7A3
Uniprot	P0C7A3
GeneID	234155;
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:7.8-500 pg/mL

Sensitivity:1.95 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:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate MBOAT4 in samples. An antibody specific for MBOAT4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMBOAT4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MBOAT4 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 MBOAT4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**GOAT could modify ghrelin ser3 with fatty acids up to tetradecanoic acid. Replacement of his338 of GOAT with ala completely abolished the ability of GOAT to octanoylate ghrelin.mouse Goat octanoylated ghrelin (GHRL), a 28-amino acid appetite-stimulating peptide hormone, following cotransfection of Goat and preproghrelin in cultured endocrine cell lines. Mutation analysis showed that Goat octanoylated ghrelin on ser3, a modification required for its endocrine effects. Asp307 and his338 of Goat were required for octanoylation.The mouse and human proteins both contain 435 amino acids and have 8 putative transmembrane segments and conserved catalytic asparagine and histidine residues. Semiquantitative PCR of mouse tissues detected highest Goat expression in stomach, with lower expression in small intestine, colon, and testis.

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Note: This product is for in vitro research use only