

# Mouse Furin (FURIN) ELISA Kit

Catalog No: #EK11593



Package Size: #EK11593-1 48T #EK11593-2 96T

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## Description

Product Name	Mouse Furin (FURIN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	FUR; PACE; PCSK3; SPC1; FES upstream region dibasic processing enzyme furin furin; membrane associated receptor protein proprotein convertase subtilisin/kexin type 3
Accession No.	P23188
Uniprot	P23188
GenID	18550;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:1.11-90 pg/mL

Sensitivity:0.48 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 FURIN in samples. An antibody specific for FURIN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyFURIN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for FURIN 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 FURIN bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Furin is an enzyme which belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. This encoded protein is a calcium-dependent serine endoprotease that can efficiently cleave precursor proteins at their paired basic amino acid processing sites. Some of its substrates are: parathyroid hormone, transforming growth factor beta 1 precursor, proalbumin, pro-beta-secretase, membrane type-1 matrix metalloproteinase, beta subunit of pro-nerve growth factor and von Willebrand factor. A furin-like pro-protein convertase has been implicated in the processing of RGMc (also called hemojuvelin ), a gene involved in a severe iron-overload disorder called juvenile hemochromatosis.

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Note: This product is for in vitro research use only