

Human L-Glucosamine--fructose-6-phosphate aminotransferase (GFAT) ELISA Kit



Catalog No: #EK12294

Orders: order@signalwayantibody.com

Package Size: #EK12294-1 48T #EK12294-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human L-Glucosamine--fructose-6-phosphate aminotransferase (GFAT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
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:Request Information

Sensitivity:Request Information

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 GFAT in samples. An antibody specific for GFAT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGFAT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GFAT 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 GFAT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Glutamine:fructose-6-phosphate amidotransferase (GFAT) catalyzes the formation of glucosamine 6-phosphate and is the first and rate-limiting enzyme of the hexosamine biosynthetic pathway. GFAT controls the flux of glucose into the hexosamine pathway, and thus formation of hexosamine products, and is most likely involved in regulating the availability of precursors for N- and O-linked glycosylation of proteins. Expression of these cDNA in E. coli produced a protein of approximately 77 kD and increased GFAT activity 4.5-fold over endogenous bacterial levels. Recombinant.GFAT1L protein possessed functional GFAT activities and biochemical characteristics similar to those of GFAT1. Previously, GFAT1 was considered a simplex enzyme.

Note: This product is for in vitro research use only