

Bovine Phosphatidylserine decarboxylase proenzyme (PISD) ELISA Kit



Catalog No: #EK8497

Orders: order@signalwayantibody.com

Package Size: #EK8497-1 48T #EK8497-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Bovine Phosphatidylserine decarboxylase proenzyme (PISD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	RP5-858B16.2; DJ858B16; DKFZp566G2246; PSD; PSDC; PSSC; dJ858B16.2; OTTHUMP0000063301
Accession No.	Q58DH2
Uniprot	Q58DH2
GeneID	505332;
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:1.56-100 pg/mL

Sensitivity:0.72 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 PISD in samples. An antibody specific for PISD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPISD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PISD 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 PISD bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Phosphatidylserine decarboxylases (PSDs; EC 4.1.1.65) catalyze the formation of phosphatidylethanolamine (PE) by decarboxylation of phosphatidylserine (PS). Type I PSDs, such as PISD, are targeted to the inner mitochondrial membrane by an N-terminal targeting sequence. PISD also contains a conserved LGST motif that functions as an autocatalytic cleavage site where the proenzyme is split into mature alpha and beta subunits

The deduced protein contains at least 370 amino acids. Pisd was expressed in all mouse tissues examined, with highest expression in testis and liver. Expression was lower in embryonic and young mice compared with adult mice. Beta-galactosidase (GLB1) staining detected high Pisd expression in embryonic heart and in Sertoli cells of adult testis.

Note: This product is for in vitro research use only