

Human Peroxisomal multifunctional enzyme type 2 (HSD17B4) ELISA Kit



Catalog No: #EK11568

Orders: order@signalwayantibody.com

Package Size: #EK11568-1 48T #EK11568-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Peroxisomal multifunctional enzyme type 2 (HSD17B4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DBP; MFE-2; SDR8C1; 17-beta-HSD IV 17-beta-hydroxysteroid dehydrogenase 4 17beta-estradiol dehydrogenase type IV 3-alpha;7-alpha;12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase D-3-hydroxy
Accession No.	P51659
Uniprot	P51659
GeneID	3295;
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:0.781-50 ng/mL

Sensitivity:0.30 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 HSD17B4 in samples. An antibody specific for HSD17B4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyHSD17B4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HSD17B4 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 HSD17B4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The HSD17B4 gene encodes an enzyme involved in peroxisomal fatty acid beta-oxidation. It was first identified as a 17-beta-estradiol dehydrogenase. Peroxisomal beta-oxidation of fatty acids is catalyzed by 3 enzymes: acyl-CoA oxidase; the 'D-bifunctional enzyme,' with enoyl-CoA-hydratase and D-3-hydroxyacyl-CoA dehydrogenase activity, and 3-ketoacyl-CoA thiolase. See also the L-bifunctional peroxisomal protein. The D- and L-bifunctional proteins have different substrate specificities. The D-bifunctional protein catalyzes the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids and

also acts in shortening cholesterol for bile acid formation. In contrast, the L-specific bifunctional protein does not have the latter 2 activities.

Note: This product is for in vitro research use only