

Human Carbonyl reductase [NADPH] 3 (CBR3) ELISA Kit

Catalog No: #EK11311

Orders: order@signalwayantibody.com

Package Size: #EK11311-1 48T #EK11311-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Carbonyl reductase [NADPH] 3 (CBR3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	SDR21C2; hCBR3; NADPH-dependent carbonyl reductase 3 carbonyl reductase (NADPH) 3 short chain dehydrogenase/reductase family 21C; member 2
Accession No.	O75828
Uniprot	O75828
GeneID	874;
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:0.156-10 ng/mL

Sensitivity:0.066 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 CBR3 in samples. An antibody specific for CBR3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCBR3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CBR3 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 CBR3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Carbonyl reductase 3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. The enzyme is classified as a monomeric NADPH-dependent oxidoreductase. CBR3 contains three exons spanning 11.2 kilobases and is closely linked to another carbonyl reductase gene - CBR1. Carbonyl reductase (CBR) catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. By analyzing sequences from the 21q22.2 chromosomal region, Watanabe et al. (1998) identified genomic clones corresponding to CBR1 and to CBR3, a novel carbonyl reductase gene. The deduced 277-amino acid CBR3 protein is 84% similar to the CBR1 protein.

Note: This product is for in vitro research use only