

Human L-Xylulose Reductase (DCXR) ELISA Kit | DCXR elisa kit

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CATALOG #
AAA149177

REACTIVITY
Human

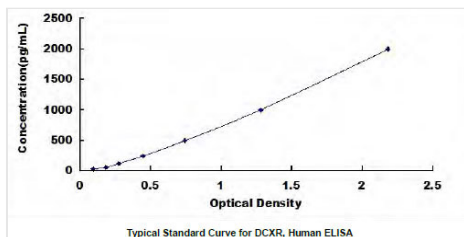
PRODUCT SYNONYMS

L-Xylulose Reductase (DCXR); Human L-Xylulose Reductase (DCXR) ELISA Kit; KIDCR; DCR; SDR20C1; Short Chain Dehydrogenase/Reductase Family 20C; Member 1; Carbonyl reductase II; Kidney dicarbonyl reductase; Sperm surface protein P34H; DCXR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of DCT. No significant cross-reactivity or interference between DCT and analogues was observed.
Sequence Length	242
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	11.8pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DCT were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DCT were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DCXR elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DCT in mouse tissue homogenates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DCT. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to DCT. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DCT, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of DCT in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for DCXR elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	304571975
NCBI GeneID	51181
NCBI Accession #	NP_001182147.1
NCBI GenBank Nucleotide #	NM_001195218.1
UniProt Accession #	Q7Z4W1; Q9BTZ3; Q9UHY9
Molecular Weight	25,913 Da
NCBI Official Full Name	L-xylulose reductase isoform 2
NCBI Official Synonym Full Names	dicarbonyl and L-xylulose reductase
NCBI Official Symbol	DCXR
NCBI Official Synonym Symbols	XR; DCR; HCR2; P34H; HCR1I; KIDCR; PNTSU; SDR20C1
NCBI Protein Information	L-xylulose reductase
UniProt Protein Name	L-xylulose reductase
UniProt Gene Name	DCXR
UniProt Synonym Gene Names	SDR20C1; XR; kiDCR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.