

Human Sepiapterin Reductase (SPR) ELISA Kit | SPR elisa kit

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CATALOG #
AAA136800

REACTIVITY
Human

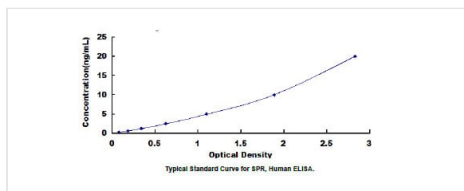
PRODUCT SYNONYMS

Sepiapterin Reductase (SPR); Human Sepiapterin Reductase (SPR) ELISA Kit; SDR38C1; 7; 8-Dihydrobiopterin:NADP+ Oxidoreductase; Short Chain Dehydrogenase/Reductase Family 38C; Member 1; SPR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SPR. No significant cross-reactivity or interference between SPR and analogues was observed.
Sequence Length	261
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.113ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SPR 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 SPR 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 SPR elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SPR in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SPR. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SPR. 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 SPR, 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 SPR in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for SPR elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507185
NCBI GeneID	6697
NCBI Accession #	NP_003115.1
NCBI GenBank Nucleotide #	NM_003124.4
UniProt Accession #	P35270; Q53GI9; Q9UBB1; A8K741; D6W5H2
Molecular Weight	28,048 Da
NCBI Official Full Name	sepiapterin reductase
NCBI Official Synonym Full Names	sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)
NCBI Official Symbol	SPR
NCBI Official Synonym Symbols	SDR38C1
NCBI Protein Information	sepiapterin reductase
UniProt Protein Name	Sepiapterin reductase
UniProt Gene Name	SPR
UniProt Synonym Gene Names	SPR
UniProt Entry Name	SPRE_HUMAN

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.