

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

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CATALOG #
AAA63532

REACTIVITY
Human

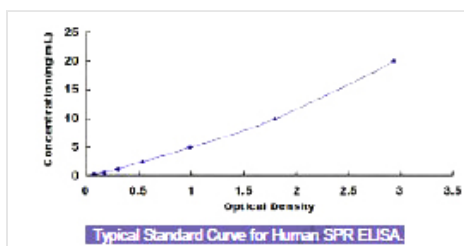
PRODUCT SYNONYMS

Sepiapterin Reductase (SPR); Human Sepiapterin Reductase (SPR) ELISA Kit; HAI2; HAI-2; Hepatocyte growth factor activator inhibitor type 2; KOP; Kunitz-type protease inhibitor 2; Placental bikunin; 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
Samples	Tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	0.108ng/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	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

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 and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to SPR. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation 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.
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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

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/sepiapterin-reductase-spr/63532>