

Human Dihydropteridine Reductase (QDPR) ELISA Kit | QDPR elisa kit

Human Dihydropteridine Reductase (QDPR) ELISA Kit

CATALOG #
AAA331191

REACTIVITY
Human

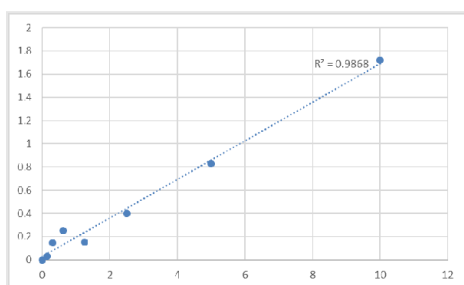
PRODUCT SYNONYMS

Dihydropteridine Reductase (QDPR); Human Dihydropteridine Reductase (QDPR) ELISA Kit; QDPR; DHPR; FLJ42391; PKU2; SDR33C1; 6; 7-dihydropteridine reductase; short chain dehydrogenase/reductase family 33C; member 1; QDPR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Dihydropteridine reductase (QDPR) ELISA Kit has high sensitivity and excellent specificity for detection of Human QDPR. No significant cross-reactivity or interference between Human QDPR and analogues was observed.
Sequence Length	244
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Dihydropteridine reductase (QDPR) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for QDPR elisa kit	Description: This Human Dihydropteridine reductase (QDPR) ELISA Kit employs a two-site sandwich ELISA to quantitate QDPR in samples. An antibody specific for QDPR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any QDPR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QDPR 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 QDPR bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: QDPR (quinoid dihydropteridine reductase) is part of the pathway that recycles a substance called tetrahydrobiopterin, also known as BH4. Tetrahydrobiopterin works with an enzyme called phenylalanine hydroxylase to process a substance called phenylalanine. Phenylalanine is an amino acid (a building block of proteins) that is obtained through the diet; it is found in all proteins and in some artificial sweeteners. When tetrahydrobiopterin interacts with phenylalanine hydroxylase, tetrahydrobiopterin is altered and must be recycled to a usable form. The regeneration of this substance is critical for the proper processing of several other amino acids in the body. Tetrahydrobiopterin also helps produce certain chemicals in the brain called neurotransmitters, which transmit signals between nerve cells.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	208973246
NCBI GeneID	5860
NCBI Accession #	NP_000311.2
NCBI GenBank Nucleotide #	NP_000311.2
UniProt Accession #	P09417
NCBI Official Full Name	dihydropteridine reductase isoform 1
NCBI Official Synonym Full Names	quinoid dihydropteridine reductase
NCBI Official Symbol	QDPR
NCBI Official Synonym Symbols	DHPR; PKU2; HDHPR; SDR33C1
NCBI Protein Information	dihydropteridine reductase
UniProt Protein Name	Dihydropteridine reductase
UniProt Gene Name	QDPR
UniProt Synonym Gene Names	DHPR
UniProt Entry Name	DHPR_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.