

Human Sphingosine-1-Phosphate Phosphatase 1 (SGPP1) ELISA Kit | SGPP1 elisa kit

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CATALOG #
AAA330881

REACTIVITY
Human

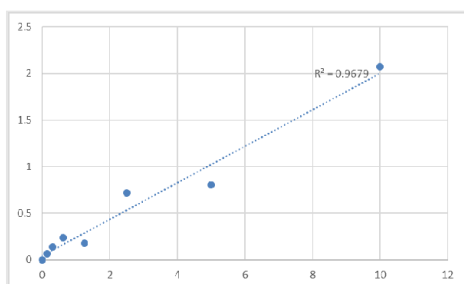
PRODUCT SYNONYMS

Sphingosine-1-Phosphate Phosphatase 1 (SGPP1); Human Sphingosine-1-Phosphate Phosphatase 1 (SGPP1) ELISA Kit; SGPP1; SPPase1; sphingosine-1-phosphatase; SGPP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sphingosine-1-phosphate phosphatase 1 (SGPP1) ELISA Kit has high sensitivity and excellent specificity for detection of Human SGPP1. No significant cross-reactivity or interference between Human SGPP1 and analogues was observed.
Sequence Length	441
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 Sphingosine-1-phosphate phosphatase 1 (SGPP1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SGPP1 elisa kit	Description: This Human Sphingosine-1-phosphate phosphatase 1 (SGPP1) ELISA Kit employs a two-site sandwich ELISA to quantitate SGPP1 in samples. An antibody specific for SGPP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SGPP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SGPP1 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 SGPP1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Sphingosine-1-phosphate (S1P) is a bioactive sphingolipid metabolite that regulates diverse biologic processes. SGPP1 catalyzes the degradation of S1P via salvage and recycling of sphingosine into long-chain ceramides. The deduced 430-amino acid mouse protein shares 17% amino acid identity with yeast Lbp1. The deduced 441-amino acid protein shares 76% amino acid identity with its mouse homolog. Transfection of HEK293 or Chinese hamster ovary (CHO) cells with SGPP1 resulted in marked increase in SGPP1 activity in membrane fractions. SGPP1 was highly specific toward long-chain sphingoid base phosphates and degraded S1P, dihydro-S1P, and phyto-S1P. SGPP1 activity was independent of any cation requirements, including Mg(2+), and was not inhibited by EDTA but was inhibited by Zn(2+).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13540569
NCBI GeneID	81537
NCBI Accession #	NP_110418.1
NCBI GenBank Nucleotide #	NP_110418.1
UniProt Accession #	Q9BX95
NCBI Official Full Name	sphingosine-1-phosphate phosphatase 1
NCBI Official Synonym Full Names	sphingosine-1-phosphate phosphatase 1
NCBI Official Symbol	SGPP1
NCBI Official Synonym Symbols	SPPase1
NCBI Protein Information	sphingosine-1-phosphate phosphatase 1
UniProt Protein Name	Sphingosine-1-phosphate phosphatase 1
UniProt Gene Name	SGPP1
UniProt Synonym Gene Names	SPPase1; Spp1; hSPP1; hSPPase1
UniProt Entry Name	SGPP1_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.