

General Sphingosine-1-Phosphate (S1P) ELISA Kit | S1P elisa kit

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CATALOG #
AAA22854

REACTIVITY
General

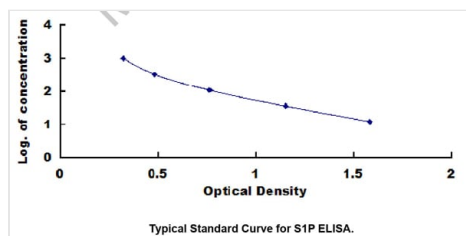
PRODUCT SYNONYMS

Sphingosine-1-Phosphate (S1P); General Sphingosine-1-Phosphate (S1P) ELISA Kit; S1P elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of S1P. No significant cross-reactivity or interference between S1P and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	12.35-1,000ng/mL
Sensitivity	< 4.62ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level S1P 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 S1P 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 S1P elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to S1P has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled S1P and unlabeled S1P (Standards or samples) with the pre-coated antibody specific to S1P. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of S1P in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of S1P in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of S1P in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Sphingosine-1-phosphate receptor 3 in the medial prefrontal cortex promotes stress resilience by reducing inflammatory processes; Nat Commun; 2019 Jul 17;10(1):3146.; PMID: 31316053; Brian F Corbett; Center for Stress Neurobiology, Children's Hospital of Philadelphia, Abramson Research Center, 3615 Civic Center Blvd, Philadelphia, PA, 19104, USA.

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/general-elisa-kits/sphingosine-1-phosphate-s1p/22854>