

General Sphingomyelin ELISA Kit | SPH elisa kit

General Sphingomyelin (SPH) ELISA Kit

CATALOG #
AAA145500

REACTIVITY
General

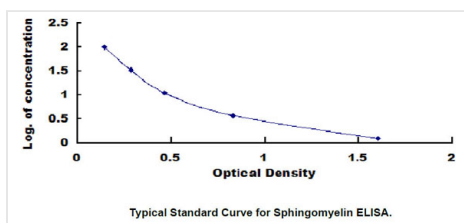
PRODUCT SYNONYMS

Sphingomyelin; General Sphingomyelin (SPH) ELISA Kit; SM; SPH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of sphingomyelin. No significant cross-reactivity or interference between sphingomyelin and analogues was observed.
Sequence Length	415
Assay Type	Quantitative Competitive
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.23-100ng/mL
Sensitivity	< 0.55ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level sphingomyelin 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 sphingomyelin 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 SPH elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to sphingomyelin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled sphingomyelin and unlabeled sphingomyelin (Standards or samples) with the pre-coated antibody specific to sphingomyelin. 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 sphingomyelin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of sphingomyelin in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of sphingomyelin in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for SPH elisa kit	Signal transduction; Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	292658773
NCBI GeneID	142891
NCBI Accession #	NP_001167627.1
NCBI GenBank Nucleotide #	NM_001174156.1
Molecular Weight	37,609 Da
NCBI Official Full Name	sphingomyelin synthase-related protein 1 isoform 1
NCBI Official Synonym Full Names	sterile alpha motif domain containing 8
NCBI Official Symbol	SAMD8
NCBI Official Synonym Symbols	SMSr; HEL-177
NCBI Protein Information	sphingomyelin synthase-related protein 1
UniProt Protein Name	Sphingomyelin synthase-related protein 1
UniProt Gene Name	SAMD8
UniProt Synonym Gene Names	SMSr; CPE synthase; SAM domain-containing protein 8
UniProt Entry Name	SAMD8_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.