

Human Sphingomyelin Phosphodiesterase 2 (SMPD2) ELISA Kit | SMPD2 elisa kit

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CATALOG #
AAA330778

REACTIVITY
Human

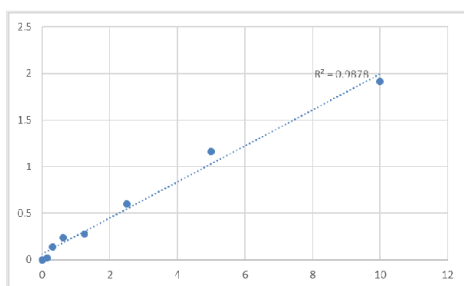
PRODUCT SYNONYMS

Sphingomyelin Phosphodiesterase 2 (SMPD2); Human Sphingomyelin Phosphodiesterase 2 (SMPD2) ELISA Kit; SMPD2; RP5-919F19.2; ISC1; NSMASE; NSMASE1; sphingomyelin phosphodiesterase 2; neutral; SMPD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sphingomyelin phosphodiesterase 2 (SMPD2) ELISA Kit has high sensitivity and excellent specificity for detection of Human SMPD2. No significant cross-reactivity or interference between Human SMPD2 and analogues was observed.
Sequence Length	423
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 Sphingomyelin phosphodiesterase 2 (SMPD2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SMPD2 elisa kit	Description: This Human Sphingomyelin phosphodiesterase 2 (SMPD2) ELISA Kit employs a two-site sandwich ELISA to quantitate SMPD2 in samples. An antibody specific for SMPD2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SMPD2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SMPD2 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 SMPD2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SMPD2 isa protein which was initially identified as a sphingomyelinase based on sequence similarity between bacterial sphingomyelinases and a yeast protein. Subsequent studies showed that its biological function is less likely to be as a sphingomyelinase and instead as a lysophospholipase. Neutral sphingomyelinase (N-SMase) activity was first described in fibroblasts from patients with Niemann-Pick disease - a lysosomal storage disease characterized by deficiencies in acid SMase. Subsequent study found that this enzyme was the product of a distinct gene, had an optimum pH of 7.4, was dependent on Mg2+ ions for activity, and was particularly enriched in brain.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160332206
NCBI GeneID	6610
UniProt Accession #	O60906
NCBI Official Full Name	Sphingomyelin phosphodiesterase 2
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 2
NCBI Official Symbol	SMPD2
NCBI Official Synonym Symbols	ISC1; NSMASE; NSMASE1
NCBI Protein Information	sphingomyelin phosphodiesterase 2
UniProt Protein Name	Sphingomyelin phosphodiesterase 2
UniProt Gene Name	SMPD2
UniProt Synonym Gene Names	Lyso-PAF-PLC; N-SMase; nSMase
UniProt Entry Name	NSMA_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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/sphingomyelin-phosphodiesterase-2-smpd2/330778>