

Human SMPD1 ELISA Kit | SMPD1 elisa kit

Human SMPD1 PicoKine ELISA Kit

CATALOG #
AAA125238

REACTIVITY
Human

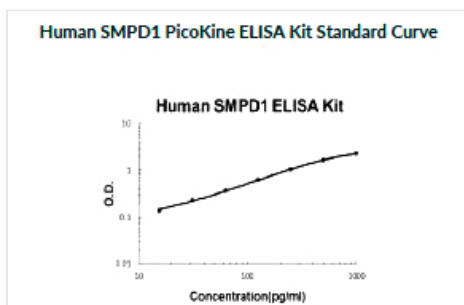
PRODUCT SYNONYMS

SMPD1; Human SMPD1 PicoKine ELISA Kit; Human SMPD1; sphingomyelin phosphodiesterase 1; Sphingomyelin phosphodiesterase; Acid sphingomyelinase; aSMase; ASM; SMPD1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human SMPD1
Sequence Length	629
Samples	Cell culture supernates, serum and plasma (heparin)
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SMPD1 elisa kit	Principle of the Assay: The Picokine™ Human SMPD1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human SMPD1 with a 96-well strip plate that is pre-coated with antibody specific for SMPD1. The detection antibody is a biotinylated antibody specific for SMPD1. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human SMPD1 with immunogen: Expression system for standard: CHO, Immunogen sequence: L47-C631. The kit is analytically validated with ready to use reagents. To measure Human SMPD1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human SMPD1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human SMPD1 in the sample.!!Background/Introduction: Sphingomyelin phosphodiesterase 1 (SMPD1), also known as acid sphingomyelinase (ASM), is an enzyme that in humans is encoded by the SMPD1 gene. This gene is mapped to 11p15.4. The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. Sphingomyelin phosphodiesterase 1 belongs to the sphingomyelin phosphodiesterase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	179095
NCBI GeneID	6609
UniProt Accession #	P17405
NCBI Official Full Name	acid sphingomyelinase
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 1
NCBI Official Symbol	SMPD1
NCBI Official Synonym Symbols	ASM; NPD; ASMASE
NCBI Protein Information	sphingomyelin phosphodiesterase
UniProt Protein Name	Sphingomyelin phosphodiesterase
UniProt Gene Name	SMPD1
UniProt Synonym Gene Names	ASM; aSMase
UniProt Entry Name	ASM_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.