

Recombinant Human SMPD1

Cat. No. SMPD1-26292TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Acid sphingomyelinase with N terminal proprietary tag; predicted MWt: 36.63 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids AIPHWQLLYRARETYGLPNTLPTAWHNLVYRMRGDMQLFQTFWFLYHKGHPPSEP
CGTPCRLATLCAQLSARADSPALCRHLMPDGSLPEAQLWPRPLF

Sequence Similarities Belongs to the acid sphingomyelinase family. Contains 1 saposin B-type domain.

GENE INFORMATION

Gene Name SMPD1 sphingomyelin phosphodiesterase 1, acid lysosomal [Homo sapiens]

Official Symbol SMPD1

Synonyms SMPD1; sphingomyelin phosphodiesterase 1, acid lysosomal; sphingomyelin phosphodiesterase; acid sphingomyelinase; ASM;

Gene ID 6609

mRNA Refseq NM_000543

Protein Refseq NP_000534

MIM 607608

Uniprot ID P17405

Chromosome Location 11p15.4-p15.1

Pathway Ceramide signaling pathway, organism-specific biosystem; FAS (CD95) signaling pathway, organism-specific biosystem; IL2 signaling events mediated by PI3K, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

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Function

hydrolase activity, acting on glycosyl bonds; sphingomyelin phosphodiesterase activity;

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