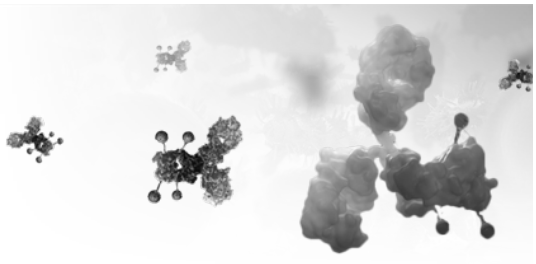

Human SMPD3 peptide (DAG-P1846)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Catalyzes the hydrolysis of sphingomyelin to form ceramide and phosphocholine. Ceramide mediates numerous cellular functions, such as apoptosis and growth arrest, and is capable of regulating these 2 cellular events independently. Also hydrolyzes sphingosylphosphocholine. Regulates the cell cycle by acting as a growth suppressor in confluent cells. Probably acts as a regulator of postnatal development and participates in bone and dentin mineralization.
Specificity	Predominantly expressed in brain.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the neutral sphingomyelinase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SMPD3 sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II) [Homo sapiens (human)]
Official Symbol	SMPD3
Synonyms	SMPD3; sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II); NSMASE2; sphingomyelin phosphodiesterase 3; nSMase-2; neutral sphingomyelinase 2; neutral sphingomyelinase II;

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Entrez Gene ID	55512
mRNA Refseq	NM_018667.3
Protein Refseq	NP_061137.1
UniProt ID	A8K0T6
Chromosome Location	16q22.1
Pathway	Ceramide signaling pathway, organism-specific biosystem; Glycosphingolipid metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, conserved biosystem; sphingomyelin metabolism/ceramide salvage, organism-specific biosystem;
Function	metal ion binding; sphingomyelin phosphodiesterase activity;

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