

Recombinant Human SMPD1 protein, His & T7-tagged

Cat. No. SMPD1-6851H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMPD1 aa. (His319~Pro579 (Accession # P17405)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	His319~Pro579
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.
Form	Freeze-dried powder
Molecular Mass	30kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.6.

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.
GENE INFORMATION	
Gene Name	SMPD1 sphingomyelin phosphodiesterase 1 [Homo sapiens (human)]
Official Symbol	SMPD1
Synonyms	ASM; NPD; ASMASE; acid sphingomyelinase; sphingomyelin phosphodiesterase 1, acid lysosomal; sphingomyelin phosphodiesterase
Gene ID	6609
mRNA Refseq	NM_000543.4
Protein Refseq	NP_000534.3

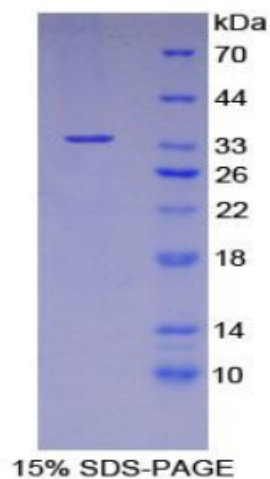
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UniProt ID P17405

SDS-PAGE



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