

Recombinant Mouse SMPD1 protein, His-GST-tagged

Cat. No. SMPD1-1242M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SMPD1 protein(Tyr58~Leu626), fused with N-terminal His and GST Tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Tyr58~Leu626
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	75kDa
Endotoxin	-
Purity	> 97%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

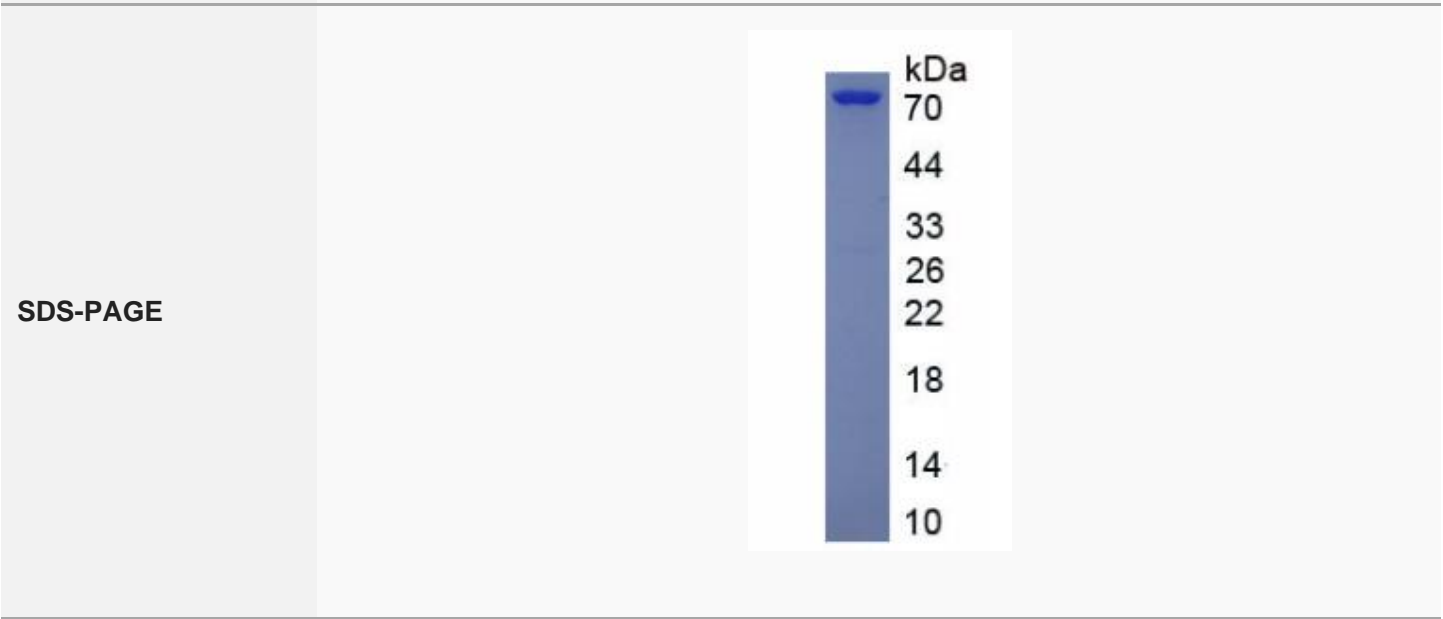
GENE INFORMATION

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Gene Name	Smpd1 sphingomyelin phosphodiesterase 1, acid lysosomal [<i>Mus musculus</i>]
Official Symbol	SMPD1
Synonyms	SMPD1; sphingomyelin phosphodiesterase 1, acid lysosomal; sphingomyelin phosphodiesterase; acid sphingomyelinase; ASM; aSMase; A-SMase; Zn-SMase;
Gene ID	20597
mRNA Refseq	NM_011421
Protein Refseq	NP_035551



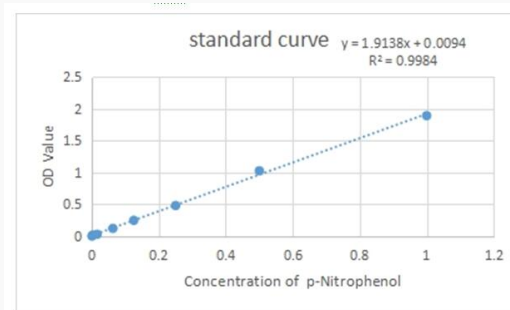


Figure 1. The standard curve of p-Nitrophenol

Activity

The recombinant mouse ASM activity was measured by its ability to hydrolyze 2-N-Hexadecanoylamino-4-nitrophenylphosphorylcholine (HDA-PC) to p-Nitrophenol. The reaction was performed in 50mM MES, 0.5 μ M ZnCl₂, pH 7.5 (Assay Buffer), initiated by addition 50 μ L of various concentrations of ASM (diluted with Assay Buffer) to 50 μ of 1mM Substrate HDA-PC (50mM stock solution in methanol, diluted with Assay Buffer). Incubated at room temperature for 20 minutes in the dark, then read at a wavelength of 405 nm.

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