

Recombinant Mouse Smpd4 Protein, His-tagged

Cat. No. Smpd4-2087M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Smpd4 Protein (Met1-Phe185) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Phe185
Description	Enables sphingomyelin phosphodiesterase activity. Involved in cellular response to tumor necrosis factor; ceramide biosynthetic process; and sphingomyelin catabolic process. Acts upstream of or within in utero embryonic development. Located in endoplasmic reticulum; nuclear envelope; and sarcolemma. Is expressed in cranium; hemolymphoid system; nervous system; respiratory system; and urinary system. Orthologous to human SMPD4 (sphingomyelin phosphodiesterase 4).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.6 kDa Accurate Molecular Mass: 23 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Smpd4 sphingomyelin phosphodiesterase 4 [Mus musculus (house mouse)]
Official Symbol	Smpd4
Synonyms	SMPD4; sphingomyelin phosphodiesterase 4; nSMase3; nSMase-3; neutral sphingomyelinase 3; neutral sphingomyelinase III; neutral membrane (neutral sphingomyelinase-3); mKIAA1418; 4122402O22Rik;
Gene ID	77626
mRNA Refseq	NM_001164609
Protein Refseq	NP_001158081
UniProt ID	Q6ZPR5

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