Recombinant Human SMPD4 Protein, His-tagged

Cat. No. SMPD4-2709H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMPD4 Protein (Ala10-His148) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala10-His148
Description	The protein encoded by this gene is a sphingomyelinase that catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. This gene is activated by DNA damage, cellular stress, and tumor necrosis factor, but it is downregulated by wild-type p53. The encoded protein localizes to the endoplasmic reticulum and Golgi network.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.1 kDa Accurate Molecular Mass: 19 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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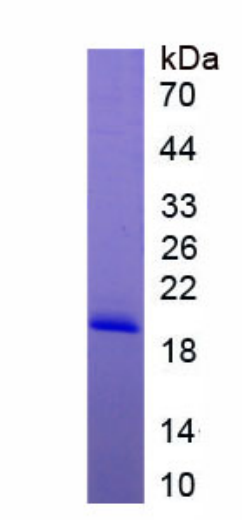
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration 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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SMPD4 sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3) [Homo sapiens (human)]
Official Symbol	SMPD4
Synonyms	SMPD4; sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3); sphingomyelin phosphodiesterase 4; FLJ20297; FLJ20756; KIAA1418; NET13; nSMase 3; NSMASE3; SKNY protein; neutral sphingomyelinase 3; neutral sphingomyelinase III; NSMASE-3;
Gene ID	55627
mRNA Refseq	NM_001171083
Protein Refseq	NP_001164554

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MIM	610457
UniProt ID	Q9NXE4



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