

Recombinant Human SMPD3 Protein, His-tagged

Cat. No. SMPD3-2708H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMPD3 Protein (Asp417-Gly651) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp417-Gly651
Description	Predicted to enable phosphatidic acid binding activity; phosphatidylserine binding activity; and sphingomyelin phosphodiesterase activity. Predicted to be involved in positive regulation of exosomal secretion and sphingomyelin metabolic process. Predicted to act upstream of or within several processes, including animal organ development; enzyme linked receptor protein signaling pathway; and sphingolipid metabolic process. Predicted to be located in Golgi apparatus and plasma membrane. Predicted to be active in cytoplasm. Biomarker of pulmonary emphysema.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.9 kDa Accurate Molecular Mass: 30 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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	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); sphingomyelin phosphodiesterase 3; NSMASE2; nSMase-2; neutral sphingomyelinase 2; neutral sphingomyelinase II; FLJ22593; MGC138443;
Gene ID	55512
mRNA Refseq	NM_018667
Protein Refseq	NP_061137

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MIM	605777
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UniProt ID	Q9NY59
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