

## Recombinant Human SMPD3 Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SMPD3 Protein (Asp417-Gly651) with a N-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Asp417-Gly651
<b>Description</b>	<p>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.</p> <p>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.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	<p>Predicted Molecular Mass: 29.9 kDa</p> <p>Accurate Molecular Mass: 30 kDa</p>
<b>Endotoxin</b>	<1.0 EU per 1g (determined by the LAL method).
<b>Purity</b>	> 97%

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.

## GENE INFORMATION

<b>Gene Name</b>	SMPD3 sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II) [ Homo sapiens (human) ]
<b>Official Symbol</b>	SMPD3
<b>Synonyms</b>	SMPD3; sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II); sphingomyelin phosphodiesterase 3; NSMASE2; nSMase-2; neutral sphingomyelinase 2; neutral sphingomyelinase II; FLJ22593; MGC138443;
<b>Gene ID</b>	55512
<b>mRNA Refseq</b>	NM_018667
<b>Protein Refseq</b>	NP_061137

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<b>MIM</b>	605777
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<b>UniProt ID</b>	Q9NY59
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