

Recombinant Mouse Smpd3 Protein, Myc/DDK-tagged

Cat. No. Smpd3-5977M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sphingomyelin phosphodiesterase 3, neutral (Smpd3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the hydrolysis of sphingomyelin to form ceramide and phosphocholine. Ceramide mediates numerous cellular functions, such as apoptosis and growth arrest, and is capable of regulating these 2 cellular events independently. Also hydrolyzes sphingosylphosphocholine. Regulates the cell cycle by acting as a growth suppressor in confluent cells. Probably acts as a regulator of postnatal development and participates in bone and dentin mineralization. Binds to anionic phospholipids (APLs) such as phosphatidylserine (PS) and phosphatidic acid (PA) that modulate enzymatic activity and subcellular location. May be involved in IL-1-beta-induced JNK activation in hepatocytes. May act as a mediator in transcriptional regulation of NOS2/iNOS via the NF-kappa-B activation under inflammatory conditions.
Molecular Mass	71.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Smpd3 sphingomyelin phosphodiesterase 3, neutral [Mus musculus (house mouse)]
Official Symbol	Smpd3
Synonyms	SMPD3; sphingomyelin phosphodiesterase 3, neutral; sphingomyelin phosphodiesterase 3; nSMase-2; neutral sphingomyelinase 2; neutral sphingomyelinase II; fro; nSMase2; AI427456; AW537966; 4631433G07Rik
Gene ID	58994
mRNA Refseq	NM_021491
Protein Refseq	NP_067466
UniProt ID	Q9JJY3

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