

Product datasheet for PH318441

NSMase2 (SMPD3) (NM_018667) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SMPD3 MS Standard C13 and N15-labeled recombinant protein (NP_061137)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218441
Predicted MW:	70.9 kDa
Protein Sequence:	>RC218441 representing NM_018667 Red=Cloning site Green=Tags(s)

MVLYTTPFPNSCLSALHCVSWALIFPCYWLVDRLAASFIPPTYEKQRADDPCCQLLCTALFTPIYLAL
LVASLPFAFLGFLFWSPQLQSARRPYIYSRLEDKGLAGGAALLSEWKGTPGPKSFCFATANVCLLPDSLAR
VNNLFNTQARAKEIGQRIRNGAARPQIKIYIDSPNTSISAASFSSLVSPQGGDVARAVPGSIKRTASV
EYKGDGGRHPGDEAANGPASGDPVDSSSPEDACIVRIGGEEGRRPPEADDPVPGGQARNGAGGGPRGQTP
NHNQQDGDGSLGSPASRESLVKGRAGPDTASGEPGANSKLLYKASVVKKAAARRRRHPDEAFDHEVS
AFFPANLDFLCLQEVFDKRAATKLKEQLHGYFEYILYDVGYYGCGCCSFKCLNSGLLFASTRYPIMDVAY
HCYPNKCNDALASKGALFLKVQVGSTPQDQRI VGYIACHTLHAPQEDSAIRCGQLDLLQDWLADFRKST
SSSSAANPEELVAFDVVCGDFNFDNCSSDDKLEQQHSLFTHYRDPCLGPGEKPAWIGTLLDNTGLYDE
DVCTPDNLQKVLSEEGRREYLAFPTSKSSGQKGRKELLKGNRRRIDYMLHAEGLCPDWKAEVEEFSFI
TQLSGLTDHLPVAMRLMVSSGEEEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_061137</u>
RefSeq Size:	5284



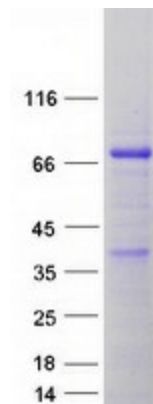
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RefSeq ORF:	1965
Synonyms:	NSMASE2
Locus ID:	55512
UniProt ID:	Q9NY59 , A8K0T6
Cytogenetics:	16q22.1

Summary: 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. [UniProtKB/Swiss-Prot Function]

Protein Families: Transmembrane
Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Product images:



Coomassie blue staining of purified SMPD3 protein (Cat# [TP318441]). The protein was produced from HEK293T cells transfected with SMPD3 cDNA clone (Cat# [RC218441]) using MegaTran 2.0 (Cat# [TT210002]).