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Product datasheet for PH319758

Acid sphingomyelinase (SMPD1) (NM_000543) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SMPD1 MS Standard C13 and N15-labeled recombinant protein (NP_000534)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219758
Predicted MW:	69.94 kDa
Protein Sequence:	>RC219758 representing NM_000543 Red=Cloning site Green=Tags(s) MPRYGASLRQSCPRSGREQGQDGTAGAPGLLWMGLVLALALALALALALSDSRVLWAPAEAHPLSPQGHP ARLHRIVPRLRDVFGWGNLTCPICKGLFTAINLGLKKEPNVARVGSVAIKLCNLLKIAPPAVCQSIVHLF EDDMVEVWRRSVLSPSEACGLLLGSTCGHWDIFSSWNISLPTVPKPPPKPPSPPAPGAPVSRILFLTDLH WDHDYLEGTDPDCADPLCCRRGSGLPPASRPGAGYWGEYSKCDLPLRTLESLLSGLGPAGPFDMVYWTGD IPAHDVWHQTRQDQLRALTTVTALVRKFLGPVPVYPAVGNHESTPVNSFPPPFIEGNHSSRWLYEAMAKA WEPWLPAEALRTLRIGGFYALSPYPGLRLISLNMNFCSRENFWLLINSTDPAGQLQWLVGELQAAEDRGD KVHIIGHIPPGHCLKSWSWNYYRIVARYENTLAAQFFGHTHVDEFEVFYDEETLSRPLAVAFLAPSATTY IGLNPGYRVYQIDGNYSGSSHVVLDHETYILNLTQANIPGAIPHWQLLYRARETYGLPNTLPTAWHNLVY RMRGDMQLFQTFWFLYHKGHPPSEPCGTPCRLATLCAQLSARADSPALCRHLMPDGSLPEAQSLWPRPLF C TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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:	NP_000534
RefSeq Size:	2473

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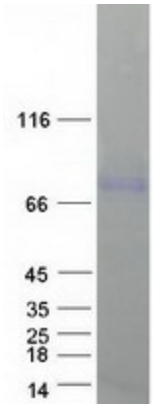
RefSeq ORF:	1893
Synonyms:	ASM; ASMASE; NPD
Locus ID:	6609
UniProt ID:	P17405, Q59EN6
Cytogenetics:	11p15.4
Summary:	The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2010]
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome, Metabolic pathways, Sphingolipid metabolism

Product images:



Coomassie blue staining of purified SMPD1 protein (Cat# [TP319758]). The protein was produced from HEK293T cells transfected with SMPD1 cDNA clone (Cat# [RC219758]) using MegaTran 2.0 (Cat# [TT210002]).