

## Product datasheet for **TP318441L**

### NSMase2 (SMPD3) (NM\_018667) Human Recombinant Protein

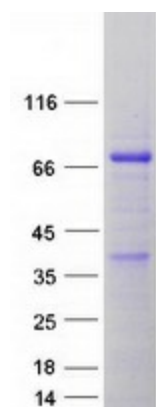
#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Homo sapiens sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II) (SMPD3), 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC218441 representing NM_018667 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MVLYTTPFPNSCLSALHCVSWALIFPCYWLVDRLAASFIPTTYEKQRADDPCCQLLCTALFTPIYLAL LVASLPFAFLGFLFWSPQLQSARRPYIYSRLEDKGLAGGAALLSEWKGTPGKSFCEFATANVCLLPDSLAR VNNLFNTQARAKEIGQRIRNGAARPQIKIYIDSPNTSISAASFSSLVSPQGGDGVARAVPGSIKRTASV EYKGDGGRHPGDEAANGPASGDPVDSSSPEDACIVRIGGEEGGRPPEADDPVPGGQARNGAGGGPRGQTP NHNQQDGDGSGSLGSPSASRESLVKGRAGPDTASGEPGANSKLLYKASVKKAAARRRRHPDEAFDHEVS AFFPANLDFLCLQEVEFDKRAATKLKEQLHGFEYILYDVG VYGCQGCCSFKCLNSGLLFASRYPIMDVAY HCYPNKCND DALASKGALFLKVQVGSTPQDQRIVGYIACHTLHAPQEDSAIRCGQLDLLQDWLADFRKST SSSSAANPEELVAFDVVCGDFNFDNCSSDDKLEQQHSLFTHYRDP CRLGPGEEKPWAIGTLLDTNGLYDE DVCTPDNLQK VLESEEGRREYLAFP TSKSSGQKGRKELLKGNRRIDYMLHAE EGLCPDWKAEVEEFSFI TQLSGLTDHLPVAMRLMVSSGEEEA
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	70.9 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_061137</a>
<b>Locus ID:</b>	55512
<b>UniProt ID:</b>	<a href="#">Q9NY59</a> , <a href="#">A8K0T6</a>
<b>RefSeq Size:</b>	5284
<b>Cytogenetics:</b>	16q22.1
<b>RefSeq ORF:</b>	1965
<b>Synonyms:</b>	NSMASE2
<b>Summary:</b>	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]
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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]).