

## Product datasheet for TP509795

### Smpd3 (NM\_021491) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse sphingomyelin phosphodiesterase 3, neutral (Smpd3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209795 representing NM_021491 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MVLYTTPFPNSCLSALHAVSWALIFPCYWLVDRLLASFIPTTYEKQRADDPCCCLQLFCTVLFTPVYLAL LVAALPFAFLGFIFWSPLQSARRPYSYSRLEDKNPAGGAALLSEWKGTGAGKSFATANVCLLPDSLAR LNNVFNTQARAKEIGQRIRNGAARPQIKIYIDSPNTSISAASFSSLVSPQGGDGSRAVPGSIKRTASVE YKGDGGRHPSDEAANGPASGEQADGSLEDSCIVRIGGEEGGRPQEADDPAAGSQARNGAGGTPKGQTPNH NQRDGDGSLGSPSASRESLVKARAGQDSGGSGEPGANSKLLYKTSVVKKAAARRRRHPDEAFDHEVSAF FPANLDFLCLQEVEFDKRAAAKLKEQLHGIFYEYILYDVGYYGCHGCCNFKCLNSGLFFASRYPMMDVAYHC YPNGCSFDALASKGALFLKVQVGSTPQDQRIVGYIACHTLHAPPEDSAVRCEQLDLLQDWLADFRKSTSS TSTANPEELVFDVICGDLNFDNCSSDDKLEQQHSLFTRYKDPCLGPGEEKPWAIGTLLDTNGLYDEDV CTPDNLQKVLSEEGRREYLAFPTSKSPGAGQKGRKDLLKGNRRIDYMLHAEGLCPDWKAEVEEFSFI TQLSGLTDHLPVAMRLMVSAGEEEA</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	71.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
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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RefSeq: [NP\\_067466](#)

Locus ID: 58994

UniProt ID: [Q9JY3](#)

RefSeq Size: 5148

Cytogenetics: 8 D3

RefSeq ORF: 1965

Synonyms: 4631433G07Rik; AI427456; AW537966; fro; nSMase2

**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. Acts as a regulator of postnatal development and participates in bone and dentin mineralization. Overexpression enhances cell death, suggesting that it may be involved in apoptosis control.[UniProtKB/Swiss-Prot Function]