

# Recombinant Full Length Human SMPD2 Protein, GST-tagged

**Cat. No.** SMPD2-483HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant full length Human SMPD2 was expressed in Wheat germ with N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene encodes a protein which was initially identified as a sphingomyelinase based on sequence similarity between bacterial sphingomyelinases and a yeast protein. Subsequent studies showed that its biological function is less likely to be as a sphingomyelinase and instead as a lysophospholipase.                                                                                                                                                                                                                 |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 72.64 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | <p>MKPNFSLRLR IFNLNCWGIP YLSKHRADRM RRLGDFLNQE SFDLALLEEV<br/> WSEQDFQYLR QKLSPTYPAH HFRSGIIGS GLCVFSKHPI QELTQHIYTL<br/> NGYPYMIHHG DWFSKGAVGL LVLHLSGMVL NAYVTHLHAE YNRQKDIYLA<br/> HRVAQAWELA QFIHHTSKKA DVLLCGDLN MHPEDLGCCL LKEWTGLHDA<br/> YLETRDFKGS EEGNTMVPKN CYVSQQELKP PFGVVRIDYV LYKAVSGFYI<br/> SCKSFETTTG FDPHSGTPLS DHEALMATLF VRHSPQQNP SSTHGPAERS<br/> PLMCVLKEAW TELGLGMAQA RWWATFASYV IGLGLLLLAL LCVLAAGGGA<br/> GEAAILLWTP SVGLVLWAGA FYLFHVQEVN GLYRAQAEQ HVLGRAREAQ<br/> DLGPEPQPAL LLGQQEGDRT KEQ</p> |

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| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                  |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | SMPD2 sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase) [ Homo sapiens ]                                                                                                                                                     |
| <b>Official Symbol</b>  | SMPD2                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | SMPD2; sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase); sphingomyelin phosphodiesterase 2; ISC1; nSMase; N-SMase; lyso-PAF-PLC; neutral sphingomyelinase; lyso-platelet-activating factor-phospholipase C; NSMASE; NSMASE1 |
| <b>Gene ID</b>          | 6610                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_003080                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_003071                                                                                                                                                                                                                                                 |
| <b>MIM</b>              | 603498                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | O60906                                                                                                                                                                                                                                                    |

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