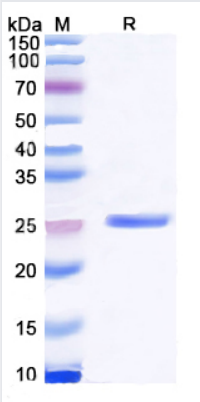
# SGPP2 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | SGPP2, Recombinant Protein |
| **Full Product Name** | Recombinant Human SGPP2 Protein, N-His-KSI |
| **Product Gene Name** | SGPP2 recombinant protein |
| **Product Synonym Names** | Sphingosine-1-phosphate phosphatase 2; SPPase2; Spp2; hSPP2; 3.1.3.-; Sphingosine-1-phosphatase 2; SGPP2 |
| **Sequence** | Ala2-Tyr87 |
| **Host** | E coli |
| **Form/Format** | Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol. |
| **Purity/Purification** | >90% as determined by SDS-PAGE. |
| **Preparation and Storage** | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for frequent use. Store at -20 to -80 degree C for twelve months from the date of receipt. |
| **Molecular Weight** | 44,741 Da |
| **Chromosome Location** | Chromosome: 2; NC_000002.11 (223289322..223423617). Location: 2q36.1 |
| **OMIM** | 612827 |
| **3D Structure** | ModBase 3D Structure for Q8IWX5 |
| **Species** | Homo sapiens (Human) |
| **Reconstitution** | Reconstitute in sterile water for a stock solution. A copy of datasheet will be provided with the products, please refer to it for details. |
| **Product Categories/Family for SGPP2 recombinant protein** | Recombinant Protein; Other Proteins; Proteins |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for SGPP2 recombinant protein** | ELISA (EIA), Immunogen, SDS-PAGE, Western Blot (WB), Bioactivity testing in progress |
| **Related Product Information for SGPP2 recombinant protein** | MBS1587699 is a recombinant protein targeting SGPP2. Also known as Recombinant Human SGPP2 Protein, N-His-KSI. Host: E coli. |
| **Other Notes** | Small volumes of SGPP2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**SDS-Page of SGPP2 recombinant protein**
SDS-PAGE for Recombinant Human SGPP2 protein

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGPP2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 23510289 |
| **NCBI GeneID** | 130367 |
| **NCBI Accession #** | NP_689599.2 |
| **UniProt Primary Accession #** | Q8IWX5 |
| **UniProt Secondary Accession #** | Q8N8Q6; A3KPB4 |
| **UniProt Related Accession #** | Q8IWX5 |
| **GenBank Nucleotide #** | NM_152386.2 |
| **NCBI Official Full Name** | sphingosine-1-phosphate phosphatase 2 |
| **NCBI Official Synonym Full Names** | sphingosine-1-phosphate phosphatase 2 |
| **NCBI Official Symbol** | SGPP2 |
| **NCBI Official Synonym Symbols** | SPP2 |
| **UniProt Protein Name** | Sphingosine-1-phosphate phosphatase 2 |
| **UniProt Synonym Protein Names** | Sphingosine-1-phosphatase 2 |
| **Protein Family** | Sphingosine-1-phosphate phosphatase |
| **UniProt Gene Name** | SGPP2 |
| **UniProt Synonym Gene Names** | SPPase2; Spp2; hSPP2 |
| **UniProt Entry Name** | SGPP2_HUMAN |
| **NCBI Protein Information** | sphingosine-1-phosphate phosphatase 2; hSPP2; SPPase2; sphingosine-1-phosphatase 2; sphingosine-1-phosphate phosphotase 2; sphingosine 1-phosphate phosphohydrolase 2 |
| **NCBI Summary for SGPP2** | Sphingosine-1-phosphate (S1P) is a bioactive sphingolipid metabolite that regulates diverse biologic processes. SGPP2 catalyzes the degradation of S1P (Ogawa et al., 2003 [PubMed 12411432]).[supplied by OMIM, Jun 2009] |

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| **UniProt Comments for SGPP2** | Function: Has specific phosphohydrolase activity towards sphingoid base 1-phosphates. Has high phosphohydrolase activity against dihydrosphingosine-1-phosphate and sphingosine-1-phosphate (S1P) in vitro. May play a role in attenuating intracellular sphingosine 1-phosphate (S1P) signaling. May play a role in pro-inflammatory signaling. Ref.1 Ref.4<br><br>Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein Ref.1.<br><br>Tissue specificity: Expressed strongly in kidney and heart, followed by brain, colon, small intestine and lung. Not detected in skeletal muscle, thymus, spleen, liver, placenta, and peripheral blood leukocytes. Ref.1<br><br>Induction: Strongly induced by TNF, also induced by bacterial lipopolycaccharides (LPS) in neutrophils, endothelial cells, and other cell types. Not induced by growth-related factors. Ref.4<br><br>Sequence similarities: Belongs to the type 2 lipid phosphate phosphatase family. |
| **Research Articles on SGPP2** | **1.** characterization of SPP2, another member of the SPP family that may play a role in attenuating intracellular S1P signaling. |
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