

# Recombinant Mouse Smpdl3b Protein, MYC/DDK-tagged

**Cat. No.** SMPDL3B-15644M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Mouse sphingomyelin phosphodiesterase, acid-like 3B (Smpdl3b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Lipid-modulating phosphodiesterase. Active on the surface of macrophages and dendritic cells and strongly influences macrophage lipid composition and membrane fluidity. Acts as a negative regulator of Toll-like receptor signaling. Has in vitro phosphodiesterase activity, but the physiological substrate is unknown. Lacks activity with phosphocholine-containing lipids, but can cleave CDP-choline, and can release phosphate from ATP and ADP (in vitro). |
| <b>Molecular Mass</b>   | 51.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                     |

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

|                        |                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Smpdl3b sphingomyelin phosphodiesterase, acid-like 3B [ Mus musculus (house mouse) ]                                                                                         |
| <b>Official Symbol</b> | Smpdl3b                                                                                                                                                                      |
| <b>Synonyms</b>        | Smpdl3b; sphingomyelin phosphodiesterase, acid-like 3B; Asm; Asml3b; AU045240; 1110054A24Rik; acid sphingomyelinase-like phosphodiesterase 3b; ASM-like phosphodiesterase 3b |
| <b>Gene ID</b>         | 100340                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_133888                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_598649                                                                                                                                                                    |
| <b>UniProt ID</b>      | P58242                                                                                                                                                                       |

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