

## Recombinant Mouse Sarm1 Protein, Myc/DDK-tagged

**Cat. No.** Sarm1-5690M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length sterile alpha and HEAT/Armadillo motif containing 1 (Sarm1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | NAD <sup>+</sup> hydrolase, which plays a key role in axonal degeneration following injury by regulating NAD <sup>+</sup> metabolism. Acts as a negative regulator of MYD88- and TRIF-dependent toll-like receptor signaling pathway by promoting Wallerian degeneration, an injury-induced form of programmed subcellular death which involves degeneration of an axon distal to the injury site. Wallerian degeneration is triggered by NAD <sup>+</sup> depletion: in response to injury, SARM1 is activated and catalyzes cleavage of NAD <sup>+</sup> into ADP-D-ribose (ADPR), cyclic ADPR (cADPR) and nicotinamide; NAD <sup>+</sup> cleavage promoting cytoskeletal degradation and axon destruction. Also able to hydrolyze NADP <sup>+</sup> , but not other NAD <sup>+</sup> -related molecules. Can activate neuronal cell death in response to stress. Regulates dendritic arborization through the MAPK4-JNK pathway. Involved in innate immune response: inhibits both TICAM1/TRIF- and MYD88-dependent activation of JUN/AP-1, TRIF-dependent activation of NF-kappa-B and IRF3, and the phosphorylation of MAPK14/p38. |
| <b>Molecular Mass</b>   | 80.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                              |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Sarm1 sterile alpha and HEAT/Armadillo motif containing 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                              |
| <b>Official Symbol</b> | <a href="#">Sarm1</a>                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | Sarm1; sterile alpha and HEAT/Armadillo motif containing 1; Sarm; C78606; MyD885; A830091I15Rik; NAD(+) hydrolase SARM1; NADP(+) hydrolase SARM1; NADase SARM1; Tir-1 homolog; sterile alpha and TIR motif containing 1; sterile alpha and TIR motif-containing protein 1; EC 3.2.2.6 |
| <b>Gene ID</b>         | <a href="#">237868</a>                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | <a href="#">NM_172795</a>                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>  | <a href="#">NP_766383</a>                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>      | <a href="#">Q6PDS3</a>                                                                                                                                                                                                                                                                |

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