Recombinant Mouse Sarm1 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	HEK293
Description	NAD+ hydrolase, which plays a key role in axonal degeneration following injury by regulating NAD+ 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+ depletion: in response to injury, SARM1 is activated and catalyzes cleavage of NAD+ into ADP-D-ribose (ADPR), cyclic ADPR (cADPR) and nicotinamide; NAD+ cleavage promoting cytoskeletal degradation and axon destruction. Also able to hydrolyze NADP+, but not other NAD+-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.
Molecular Mass	80.1 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Sarm1 sterile alpha and HEAT/Armadillo motif containing 1 [Mus musculus (house mouse)]
Official Symbol	Sarm1
Synonyms	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
Gene ID	237868
mRNA Refseq	NM_172795
Protein Refseq	NP_766383
UniProt ID	Q6PDS3

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA