

SARM1 Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	hSARM1;Sterile alpha motif domain-containing protein 2 (MyD88-5;SAM domain-containing protein 2);SARM1;Sterile alpha and TIR motif-containing protein 1;SARM;NAD(+) hydrolase SARM1;KIAA0524;NADase SARM1;SAMD2;Tir-1 homolog (HsTIR);Sterile alpha and Armadillo repeat protein;NADP(+) hydrolase SARM1
Protein Construction:	28-724 aa
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q6SZW1
Molecular Weight:	80.4 kDa (predicted)
AA Sequence:	LAVPGPDGGGGTGPWWAAGGRGPREVSPGAGTEVQDALERALPELQQALSALKQAGGARAVGAGLAEVF QLVVEAWLLPAVGREVAQGLCDAILRDGGLDLLLRLLQAPELETRVQAARLLEQILVAENRDRVARIGLVILN LAKEREPVELARSVAGILEHMFKHSEETCQRLVAAGGLDAVLYWCRRTDPALLRHCALALGNCALHGGQAVQ RRMVEKRAAEWLFPLAFSKEDELLRLHACLAVAVLATNKEVEREVERSGTLALVEPLVASLDPGRFARCLVDA SDTSQGRGPDQLRLVPLLDNSRLEAQCIGAFYLCAEAAIKSLQGKTKVFSDIGAIQSLKRLVSYSTNGTKSAL AKRALRLLGEEVPRPILPSVPSWKEAEVQTLWQQIGFSKYCESFREQQVDGDLRLTEEELQTDLGMKSGITR KRFFRELTELKTFANYSTCDRSNLADWLGLSDPRFRQYTYGLVSCGLDRSLLHRVSEQQLLEDCGIHLGVHRA RILTAAREMLHSPLPCTGGKPSGDTPDVFISYRRNSGSQLASLLKVHLQLHGFSVFIDVEKLEAGKFEDKLIQSV MGARNFVLVLSPGALDKCMQDHDCKDWHKEIVTALSCGKNVPIIDGFEWPEPQVLPEDMQAVLTFNGIK WSHEYQEATIEKIIRFLQGRSSRDSSAGSDTSLEGAAPMGPT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481