



Recombinant Human NAD (+) hydrolase SARM1 (SARM1)

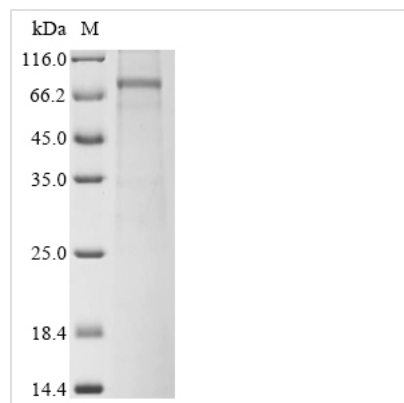
Product Code	CSB-BP750971HU
Abbreviation	Recombinant Human SARM1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q6SZW1
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens(Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	LAVPGPDGGGGTGPWWAAGGRGPREVSPGAGTEVQDALERALPELQQALS ALKQAGGARAVGAGLAEVFQLVEEAWLLPAVGREVAQGLCDAIRLDGGLDLLL RLLQAPELETRVQAARLLEQILVAENRDRVARIGLVILNLAKEREPVELARSA GILEHMFKHSEETCQRLVAAGGLDAVLYWCRRTDPALLRHCALALGNCALHG GQAVQRRMVEKRAAEWLFPLAFSKEDELLRLHACLAVAVLATNKEVEREVER SGTLALVEPLVASLDPGRFARCLVDASDTSQGRGPDDLQRLVPLLDSDNRLEAQ CIGAFYLCAEAAIKSLQGKTKVFSDIGAIQSLKRLVSYSTNGTKSALAKRALRLL GEEVPRPILPSVPSWKEAEVQTLWQQIGFSKYCESFREQQVDGDLRLTEEE LQTDLGMKSGITRKRFFRELTELKTFANYSTCDRSNLADWLGLSDPRFRQYTY GLVSCGLDRSLLHRVSEQQLLEDCGIHLGVHRARILTAAREMLHSPLPCTGGK PSGDTPDVFIYSYRRNSGSQLASLLKVHLQLHGFSVFIDVEKLEAGKFEDKLIQS VMGARNFVLVSPGALDKCMQDHDCKDWWHKEIVTALSCGKNIVPIIDGFEWP EPQVLPEDMQAVLTFNGIKWSHEYQEATIEKIIRFLQGRSSRDSSAGSDTSLEG AAPMGPT
Research Area	Cell Biology
Source	Baculovirus
Target Names	SARM1
Protein Names	Recommended name: Sterile alpha and TIR motif-containing protein 1 Alternative name(s): Sterile alpha and Armadillo repeat protein Sterile alpha motif domain-containing protein 2 Short name= SAM domain-containing protein 2 Tir-1 hom
Expression Region	28-724aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	80.4 kDa



Protein Length

Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The production of this recombinant Human SARM1 protein is just like all recombinant proteins. The process involved transfecting Baculovirus cells with DNA vector containing the template of recombinant DNA. The Baculovirus cells containing the template were then cultured so that they could transcribe and translate the SARM1 protein. N-terminal 10xHis tag and C-terminal Myc tag was used in the process. The purity is 0.85 determined by SDS-PAGE.

Sterile alpha and toll/interleukin receptor motif-containing protein 1, SARM1, an executor of axonal degeneration, is an autoinhibitory NAD-consuming enzyme, composed of multiple domains. NMN and its analogs, CZ-48 and VMN, are the only known activators, which can release the inhibitory ARM domain from the enzymatic TIR domain. The later discovery that SARM1 promotes Wallerian degeneration suggested the existence of a pathway that might be targeted therapeutically. More recently, SARM1 was found to execute degeneration by hydrolyzing NAD⁺. Notably, SARM1 knockdown or knockout prevents neuron degeneration in response to a range of insults that lead to peripheral neuropathy, traumatic brain injury, and neurodegenerative disease. To be clarified, the reduction of cellular NAD⁺ concentration contributes to the disassembly of SARM1's peripheral ring, which allows formation of active NADase domain dimers, thereby further depleting NAD⁺ to cause an energetic catastrophe and cell death.

Shelf Life

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