

Recombinant Human SPAST Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPAST-5187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SPAST MS Standard C13 and N15-labeled recombinant protein (NP_055761) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the AAA (ATPases associated with a variety of cellular activities) protein family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. The use of alternative translational initiation sites in this gene results in a single transcript variant that can produce isoforms that differ in the length of their N-terminus and which thereby differ in the efficiency of their export from the nucleus to the cytoplasm. In addition, alternative splicing results in multiple transcript variants that encode isoforms that differ in other protein regions as well. One isoform of this gene has been shown to be a microtubule-severing enzyme that regulates microtubule abundance, mobility, and plus-end distribution. Mutations in this gene cause the most frequent form of autosomal dominant spastic paraplegia 4.
Molecular Mass	67 kDa
AA Sequence	MNSPGGRGKKKGSGGASNPVPPRPPPPCLAPAPPAAGPAPPPEsqHQRNLYYFSY

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PLFVGFBALLRLVAFHLGLLFVWLCQRFSRALMAAKRSSGAAPAPASASAPAPVPGG
 EAERVRFVHKQAFEYISIALRIDEDEKAGQKEQAVEWYKKGIEELEKGIATIVTGQGE
 QCERARRLQAKMMTNLVMKDRLQLLEKMQPVLFPFSKSQTDVYNDSTNLACRNGH
 LQSESGAVPKRKDPLTHTSNLSLPRSKTVMKTGSAGLSGHHRAPSYGLSMVSGVK
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 TAVKFDDIAGQDLAKQALQEIVLPSLRPELFTGLRAPARGLLLFGPPGNGKTMMLAKA
 VAAESNATFFNISAASLTISKYVGEKEKLVRALFAVARELQPSIIFIDEVDSLLCERREG
 EHDASRLKTEFLIEFDGVQSAGDDRVLVMGATNRPQELDEAVLRRFIKRVVYVSLPN
 EETRLLLLKNLLCKQGSPLTQKELAQRLARMTDGYSGSDLTALAKDAALGPIRELKPE
 QVKNMSASEMRNIRLSDFTESLKKIKRSVSPQTLEAYIRWNKDFGDTTVTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SPAST spastin [Homo sapiens (human)]
Official Symbol	SPAST
Synonyms	SPAST; spastin; spastic paraplegia 4 (autosomal dominant; spastin), SPG4; ADPSP; FSP2; KIAA1083; spastic paraplegia 4 protein; spastic paraplegia 4 (autosomal

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dominant; spastin); SPG4;

Gene ID [6683](#)

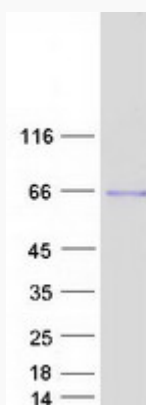
mRNA Refseq [NM_014946](#)

Protein Refseq [NP_055761](#)

MIM [604277](#)

UniProt ID [Q9UBP0](#)

SDS-PAGE



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