

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

MNSPGGRGKKGSGGASNPVPPRPPPPCLAPAPPAAGPAPPPEAQHKRNLYYFSY

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PLFVGFALLRLVAFHLGLLFVWLCQRFSRALMAAKRSSGAAPAPASASAPAPVPGG
 EAERVRVFHKQAFEYISIALRIDEDEKAGQKEQAVEWYKKGIEELEKGIATIVTGQGE
 QCERARRLQAKMMTNLVMKDRLQLLEKMQPVLFPFSKSQTDVYNDSTNLACRNGH
 LQSESGAVPKRKDPLTHTSNLPRSKTVMKTGSAGLSGHHRAPSYSGLSMVSGVK
 QGSGPAPTTHKGTPTNRTNKPSTPTTATRKKKDLKNFRNVDSNLANLIMNEIVDNG
 TAVKFDDIAGQDLAKQALQEIVLPSLRPELFTGLRAPARGLLLFGPPGNGKTMLAKA
 VAAESNATFFNISAASLTSKYVGEGEKLVRALFAVARELQPSIIFIDEVDSLLCERREG
 EHDASRRLKTEFLIEFDGVQSAGDDRVLVMGATNRPQELDEAVLRRFIKRVVYVSLPN
 EETRLLLLKNLLCKQGSPLTQKELAQLARMTDGYSGSDLTALAKDAALGPIRELKPE
 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

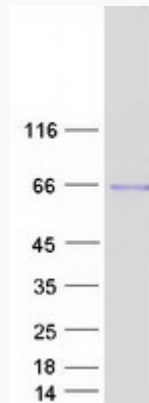
Synonyms SPAST; spastin; spastic paraplegia 4 (autosomal dominant; spastin), SPG4; ADPSP; FSP2; KIAA1083; spastic paraplegia 4 protein; spastic paraplegia 4 (autosomal

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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** 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