

Recombinant Full Length Human SPAST Protein, C-Flag-tagged

Cat. No. SPAST-369HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPAST Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	67 kDa

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AA Sequence

MNSPGGRGKKKGSGGASNPVPPRPPPPCLAPAPPAAGPAPPPESQHKRNLYYFSY
 PLFVGFALLRLVAFH LGLLFVWLCQRFSRALMAAKRSSGAAPAPASASAPVPGG
 EAERVRFVHKQAFEYISIALRIDEDEKAG QKEQAVEWYKKGIEELEKGIIVITGQGE
 QCERARRLQAKMMTNLVMKDRLQLEKMQPVLFPFSKSQTD VYNDSTNLACRNG
 HLQSESGAVPKRKDPLTHTSNLPRSKTVMKTGSAGLSGHHRAPSYSGLSMVSGV
 KQ GSGPAPTTHKGTPTNRTNKPSTPTTATRKKKDLKNFRNVDSNLANLIMNEIVD
 NGTAVKFDDIAGQDLA KQALQEIVILPSLRPELFTGLRAPARGLLLFGPPGNGKTML
 AKAVAAESNATFFNISAASLTSKYVGEKE KLVRALFAVARELQPSIIFIDEVDSLLCER
 REGEHDASRRLKTEFLIEFDGVQSAGDDRVLVMGATNRPQ ELDEAVLRRFIKRVYV
 SLPNEETRLLLLKNLLCKQGSPLTQKELAQARMTDGYSGSDLTALAKDAALGP
 IRELKPEQVKNMSASEMRNIRLSDFTESLKKIKRSVSPQTLAYIRWNKDFGDTTVTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

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.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Druggable Genome, Transmembrane

Full Length

Full L.

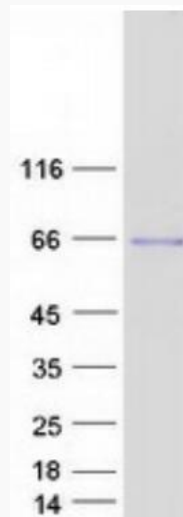
GENE INFORMATION

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Gene Name	SPAST spastin [Homo sapiens (human)]
Official Symbol	SPAST
Synonyms	FSP2; SPG4; ADPSP
Gene ID	6683
mRNA Refseq	NM_014946.4
Protein Refseq	NP_055761.2
MIM	604277
UniProt ID	Q9UBP0



Coomassie blue staining of purified SPAST protein.

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