

Recombinant Human Spastic Paraplegia 21, His-tagged

Cat. No. SPG21-501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SPG21 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW=37.1kDa.
Species	Human
Source	E.coli
Description	Spastic paraplegia 21 (SPG21), also known as Maspardin, binds to the hydrophobic C-terminal amino acids of CD4 and may play a role as a negative regulatory factor in CD4-dependent T-cell activation. This protein is widely expressed in various tissues including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Mutations in SPG21 cause Mast syndrome, an autosomal-recessive complicated form of hereditary spastic paraplegia characterized by dementia, thin corpus callosum and white matter abnormalities.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGEIKVSPDY NWFRGTVPLK KIIVDDDDSK IWSLYDAGPR SIRCPILFLP PVSGTADVFF RQILALTGWG YRVIALQYPV YWDHLEFCDG FRKLLDHLQL DKVHLFGASL GGFLAQKFAE YTHKSPRVHS LILCNSFSDT SIFNQWTAN SFWLMPAFML KKIVLGNFSS GPVDPMMADA IDFMVDRLES LGQSELASRL TLNCQNSYVE PHKIRDIPVT IMDVFDQSAL STEAKEEMYK LYPNARRAHL KTGGNFPLYC RSAEVNLYVQ IHLLQFHGTK YAAIDPSMVS AEELEVQKGS LGISQEEQ.
From	Liquid. In 20mM Tris-HCl buffer (pH8.0).

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Purity	>95% by SDS–PAGE.
Concentration	1mg/ml (determined by Bradford assay).
Endotoxin Level	<1.0 EU per 1µg of protein (determined by LAL method).
Storage	Can be stored at +4°C short term (1-2weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	SPG21 spastic paraplegia 21 (autosomal recessive, Mast syndrome) [Homo sapiens]
Synonyms	SPG21; spastic paraplegia 21 (autosomal recessive, Mast syndrome); MAST; ACP33; GL010; BM-019; MASPARDIN; SPG21; maspardin; Maspardin; Spastic paraplegia 21 autosomal recessive Mast syndrome protein; Acid cluster protein 33; spastic paraplegia 21
Gene ID	51324
mRNA Refseq	NM_001127889
Protein Refseq	NP_001121361
MIM	608181
UniProt ID	Q9NZD8
Chromosome Location	15q21-q22

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Function	CD4 receptor binding
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