

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 *E.coli* 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 SSSLVPRGSH MGEIKVSPDY NWFRGTVPLK KIIVDDDDSK
 IWSLYDAGPR SIRCPLIFLP PVSQTADVFF RQILALTGWG YRVIALQYPV
 YWDHLEFCDG FRKLLDHLQL DKVHLFGASL GGFLAQKFAE YTHKSPRVHS
 LILCNSFSDT SIFNQTWTAN 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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