
Product Data Sheet

Product Name: SPG21 Human
 Cat. No.: GP24681
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MAST; ACP33; GL010; BM-019; MASPARDIN; SPG21; Spastic paraplegia 21 autosomal recessive Mast syndrome protein; Acid cluster protein 33.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGEIKVSPDY NWFRGTVPLK KIIVDDDDSK IWSLYDAGPR SIRCPLIFLP PVSGTADVFF RQILALTGWG YRVIALQYPV YWDHLEFCDG FRKLLDHLQL DKVHLFGASL GGFLAQKFAE YTHKSPRVHS LILCNSFSDT SIFNQTWTAN SFWLMPAFML KKIVLGNFSS GPVDPMMADA IDFMVDRLES LGQSELASRL TLNCQNSYVE PHKIRDIPVT IMDVFDQSAL STEAKEEMYK LYPNARRAHL KTGGNFPYLC RSAEVNLYVQ IHLLQFHGTK YAAIDPSMVVS AEELEVQKGS LGISQEEQ.		
Formulation	The SPG21 protein solution contains 20mM Tris-HCl, pH-8.		

Introduction

SPG21 binds to the hydrophobic C-terminal amino acids of CD4 which take part in suppression of CD-4 dependant T cell activation. The interaction with CD4 is mediated by the noncatalytic alpha/beta hydrolase fold domain. SPG21 adapts the stimulatory activity of CD4. SPG21 is broadly expressed in diverse 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

SPG21 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 328 amino acids (1-308 a.a.) and having a molecular mass of 94.4 kDa. SPG21 is expressed with a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA