

## Product datasheet for PH300071

### SPG21 (NM\_016630) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SPG21 MS Standard C13 and N15-labeled recombinant protein (NP_057714)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200071
Predicted MW:	35 kDa
Protein Sequence:	>RC200071 protein sequence Red=Cloning site Green=Tags(s)  MGEIKVSPDYNWFRGTVPLKKIIVDDDDSKIWSLYDAGPRSIRCPLIFLPPVSGTADVFFRQILALTGWG YRVIALQYPVYWDHLEFCDFRKLDDHLQLDKVHLFGASLGGFLAQKFAEYTHKSPRVHSLILCNSFSDT SIFNQWTANSFWLMPAFMLKKIVLGNFSSGPVDPMMADAIDFMVDRLESLGQSELASRLTLNCQNSYVE PHKIRDIPVTIMDVFDQSALSTEAKEEMYKLYPNARRAHLKTGGNFPYLCRSAEVNLYVQIHLLQFHGTK YAAIDPSMVSAEELEVQKGSGLISQEEQ  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_057714</a>
RefSeq Size:	1839
RefSeq ORF:	924
Synonyms:	ABHD21; ACP33; BM-019; GL010; MAST
Locus ID:	51324



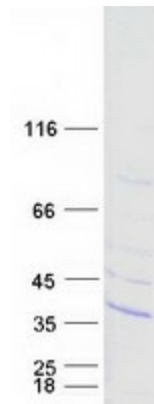
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UniProt ID: [Q9NZD8](#), [A0A024R5Y1](#)

Cytogenetics: 15q22.31

**Summary:** The protein encoded by this gene binds to the hydrophobic C-terminal amino acids of CD4 which are involved in repression of T cell activation. The interaction with CD4 is mediated by the noncatalytic alpha/beta hydrolase fold domain of this protein. It is thus proposed that this gene product modulates the stimulatory activity of CD4. Mutations in this gene are associated with autosomal recessive spastic paraplegia 21 (SPG21), also known as mast syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

### Product images:



Coomassie blue staining of purified SPG21 protein (Cat# [TP300071]). The protein was produced from HEK293T cells transfected with SPG21 cDNA clone (Cat# [RC200071]) using MegaTran 2.0 (Cat# [TT210002]).