

SPG21 Protein, Mouse (sf9, His-GST)

Cat. No.:	HY-P77213
Synonyms:	Masparidin; Acid cluster protein 33; ACP33; BM-019; GL010; Spastic paraplegia 21 protein
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q9CQC8 (M1-P308)
Gene ID:	27965
Molecular Weight:	Approximately 52 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 3 mM DTT, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The SPG21 protein appears to function as a negative regulatory factor in CD4-dependent T-cell activation, suggesting a potential role in modulating immune responses. This regulatory function involves direct interactions with CD4, emphasizing its influence on key components of the T-cell activation pathway. Additionally, SPG21 protein interacts with ALDH16A1, indicating its involvement in diverse molecular interactions that may extend beyond T-cell regulation. Further exploration into the specific mechanisms and downstream effects of SPG21 in the context of CD4-dependent T-cell activation could provide valuable insights into its role in immune modulation and cellular processes beyond the immune system.
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Caution: Product has not been fully validated for medical applications. For research use only.

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