

SPG21 Protein, Human (sf9, GST)

Cat. No.:	HY-P77212
Synonyms:	Masparidin; Acid cluster protein 33; ACP33; BM-019; GL010; Spastic paraplegia 21 protein
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9NZD8 (M1-Q308)
Gene ID:	51324
Molecular Weight:	Approximately 61 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 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 is suggested to potentially function as a negative regulatory factor in CD4-dependent T-cell activation, indicating its involvement in modulating immune responses. It interacts with CD4, suggesting a molecular association that may impact CD4-mediated T-cell activation pathways. Additionally, SPG21 interacts with ALDH16A1, indicating its potential participation in cellular processes associated with the aldehyde dehydrogenase family. The specific mechanisms underlying SPG21's regulatory role in T-cell activation and its interaction with ALDH16A1 remain areas of interest, highlighting its potential significance in immune regulation and cellular metabolism.
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Caution: Product has not been fully validated for medical applications. For research use only.

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