SCIMP Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702430
Synonyms:	SLP adapter and CSK-interacting membrane protein; SLP65/SLP76, Csk-interacting membrane protein
Species:	Human
Source:	E. coli Cell-free
Accession:	Q6UWF3 (M1-F145)
Gene ID:	388325
Molecular Weight:	22.7 kDa

PROPERTIES

AA Sequence	M D T F T V Q D S T A M S W W R N N F W I I L A V A I I V V S V G L G L I L Y C V C K W Q L R R G K K W E I A K P L K H K Q V D E E K M Y E N V L N E S P V Q L P P L P P R N W P S L E D S S P Q E A P S Q P P A T Y S L V N K V K N K K T V S I P S Y I E P E D D Y D D V E I P A N T E K A S F
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	SCIMP protein serves as a lipid tetraspanin-associated transmembrane adapter, playing a crucial role in immune cell signaling by acting as a scaffold for Src-family kinases and other signaling proteins. In B cells, SCIMP is essential for major histocompatibility complex class II (MHC-II) signaling transduction, contributing to calcium response and enhancing ERK activity upon MHC-II stimulation. Additionally, in dendritic cells, SCIMP sustains CLEC7A/DECTIN1 signaling after activation by fungal beta-glucans. Acting as an agonist-inducible signaling adapter, SCIMP selectively enables the expression of pro-inflammatory cytokines IL6 and IL12B in macrophages by interacting with Toll-like receptors (TLR1, TLR2, TLR3, TLR4, and TLR7) and serving as a scaffold for phosphorylation by Src-family kinases. SCIMP forms interactions with various proteins,

	including CD37, CD53, CD81, LYN, CSK, BLNK, GRB2, and TLR4, highlighting its multifaceted role in orchestrating immune cell signaling pathways.

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