SECTM1A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70963
Synonyms:	SECTM1A; Sectm1a
Species:	Mouse
Source:	HEK293
Accession:	A2ABP9 (Q28T165)
Gene ID:	209588
Molecular Weight:	20-40 kDa

PROPERTIES

AA Sequence	Q N K S W D N P I C T E G I L S V P R G N P A V M T C N I S N T F T D V T I Q L S A N G K D K T I F D K K P Q G N F S W R G W E L Q V Q G G L A Q L V I K D T Q D D H T G I Y L W Q L H G R Q R C Y K N I T L N I L E P S N E D K V P D T T L F T S F P D H A K S S P I E G K P G T
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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 a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Secreted and transmembrane 1A (SECTM1A) is a protein that encoded by SECTM1A gene. SECTM1A can bind to GITR on the surface of macrophages and activate the PI3K–Akt pathway, thereby enhancing the phagocytosis and bactericidal ability of macrophages and improving survival outcomes of septic mice. SECTM1A, as an alternative CD7 ligand, is also able to act as a T cells costimulator to enhance T cell proliferation and IL-2 production, but this effect is dependent on glucocorticoid-induced TNFR (GITR) activation. SECTM1A, as a new GITR ligand, promotes the expansion of Th cells, especially Th2, and increases secretion of Th2 cytokines, thereby stimulating the local proliferation of TRM and improve the survival rate of animals after LPS injection. SECTM1A can inhibit NF-κB signaling by activating the LXRα pathway, therby suppressing the inflammatory response. SECTM1A can be used for research on inflammatory diseases[1][2][3].

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

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