Proteins

Product Data Sheet

CD229/SLAMF3 Protein, Mouse (407a.a, HEK293, His)

Cat. No.: HY-P72464

CD229; cell-surface molecule Ly-9; hly9; Ly9; SLAMF3; T-lymphocyte surface antigen Ly-9 Synonyms:

Species: HEK293 Source:

Q4VBG4 (K48-F454) Accession:

Gene ID: 17085 Molecular Weight: 65-75 kDa

PROPERTIES

AA Sequence

	KETPPTVISG	MLGGSVTFSL	NISKDAEIEH	ITWNCPPKAL	
	ALVSYKKDIT	ILDKGYNGRL	KVSEDGYSLY	MSNLTKSDSG	
	SYYAQINQKN	VTLTTNKEFT	LHIYEKLQKP	QIIVESVTPS	
	DTDSCTFTLI	CTVKGTKDSV	QYSWTREDTH	LNTYDGSHTL	
	RVSQSVCDPD	LPYTCKAWNP	VSQNSSQPVR	IWQFCTGASR	
	RKTAAGKTVV	GILGEPVTLP	LEFRATRATK	NVVWVFNTSV	
	ISQERRGAAT	ADSRRKPKGS	EERRVRTSDQ	DQSLKISQLK	
	MEDAGPYHAY	VCSEASRDPS	VRHFTLLVYK	RLEKPSVTNS	
	PVHMMNGICK	VVLTCSVDGG	GNNVTYTWMP	LQNKAVMSQG	
	KSHLNVSWES	GEHLPNFTCT	AHNPVSNSSS	QFSSGTICSG	
	PERNKRF				
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	Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
	recommended to dad a carrier protein (0.170 bors, 570 Hors, 1070 F bo 01 570 Heriatose).				

DESCRIPTION

Shipping

Storage & Stability

Background The CD229/SLAMF3 protein serves as a self-ligand receptor within the signaling lymphocytic activation molecule (SLAM)

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

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

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family, influencing immune cell activation and differentiation through homo- or heterotypic cell-cell interactions. These interactions, regulated by the presence or absence of cytoplasmic adapter proteins such as SH2D1A/SAP and/or SH2D1B/EAT-2, play a crucial role in coordinating both innate and adaptive immune responses. CD229's involvement extends to adhesion reactions between T lymphocytes and accessory cells via homophilic interaction. Additionally, it contributes to T-cell differentiation, promoting a Th17 phenotype with increased IL-17 secretion, a process dependent on the presence of SH2D1A. CD229 also plays a role in maintaining peripheral cell tolerance by acting as a negative regulator of the immune response, potentially disabling autoantibody responses and inhibiting IFN-gamma secretion by CD4(+) T-cells. Moreover, it may negatively regulate the size of thymic innate CD8(+) T-cells and the development of invariant natural killer T (iNKT) cells. Furthermore, CD229 can enhance natural killer (NK) cell activation, and it interacts with SH2D1A, INPP5D, and PTPN11, with the latter interaction being blocked by SH2D1A.

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

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