

Product Data Sheet

NKG2C/CD159c Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P700799
Synonyms:	CD159c; KLRC2; NKG2C; NK cell receptor C
Species:	Human
Source:	HEK293
Accession:	P26717 (E98-L231)
Gene ID:	3822
Molecular Weight:	35-55 kDa

PROPERTIES	
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
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 NKG2C/CD159c Protein, an immune activating receptor, plays a pivotal role in self-nonself discrimination. Tea KLRD1 on cytotoxic lymphocyte subsets, it recognizes non-classical major histocompatibility (MHC) class Ib H with signal sequence-derived peptides from non-classical MHC class Ib HLA-G molecules. This interaction like to the generation and effector functions of adaptive natural killer (NK) cells and is implicated in maternal-feta during pregnancy. NKG2C/CD159c also regulates the effector functions of terminally differentiated cytotoxic l
subsets, particularly in the adaptive NK cell response to viral infection. Upon binding to HLA-E-peptide comple NKG2C/CD159c transmits intracellular signals through the adapter protein TYROBP/DAP12, initiating the phose proximal signaling molecules and subsequent cell activation. Forming a heterodimer with KLRD1 through disc the KLRD1-KLRC2 receptor complex, in association with TYROBP homodimers, is crucial for its cell surface exp Additionally, this receptor complex can bind with low affinity to HLA-E loaded with self-peptides derived from sequence of classical MHC class Ia. The multifaceted interactions and functions of NKG2C/CD159c underscore role in immune responses and self-tolerance mechanisms.

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

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