NKG7 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702386
Synonyms:	Protein NKG7; Natural killer cell protein 7
Species:	Mouse
Source:	E. coli Cell-free
Accession:	Q99PA5 (M1-L165)
Gene ID:	/
Molecular Weight:	19.5 kDa

PROPERTIES

AA Sequence	M E P C R S L A L F A G S L G L T S S L I A L T T D F W I V A T G P H F S A H S G L W P T S Q E T Q V A G Y I H V T Q S F C I L A V L W G L V S V S F L I L S C I P A L S A P G R G P L V S T V M A F S A A L S I L V A M A V Y T S M R W S Q T P F S Q V Q T F F S W S F Y L G W V S F I L F L F A G C L S L G A H C R T R R A E Y E T L
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	The NKG7 protein functions as a crucial regulator of cytotoxic granule exocytosis in effector lymphocytes, emerging as a pivotal mediator of inflammation in diverse infectious and non-infectious diseases. Its indispensable role is evident in facilitating the cytotoxic degranulation of natural killer (NK) cells and CD8(+) T-cells, as well as activating CD4(+) T-cells in response to infection. Notably, NKG7 plays a critical role in the cytolysis of target cells by CD8(+) T-cells and NK cells, enhancing cytolytic activity through the perforin/granzyme pathway, particularly by promoting the exocytosis of LAMP1-carrying lytic granules. Moreover, NKG7's contribution to NK cell-mediated control of cancer metastasis underscores its

	broader impact in immune surveillance and response against malignant cells.

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

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