MICA Protein, Human (285a.a, HEK293, His)

Cat. No.:	HY-P70157
Synonyms:	rHuMHC class I polypeptide-related sequence A/MICA, His ; MHC Class I Polypeptide-Related Sequence A; MIC-A; MICA; PERB11.1
Species:	Human
Source:	HEK293
Accession:	AAH16929.1 (E24-Q308)
Gene ID:	100507436
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	E P H S L R Y N L T V L S W D G S V Q S G F L T E V H L D G Q P F L R C D R Q K C R A K P Q G Q W A E D V L G N K T W D R E T R D L T G N G K D L R M T L A H I K D Q K E G L H S L Q E I R V C E I H E D N S T R S S Q H F Y Y D G E L F L S Q N L E T K E W T M P Q S S R A Q T L A M N V R N F L K E D A M K T K T H Y H A M H A D C L Q E L R R Y L K S G V V L R R T V P P M V N V T R S E A S E G N I T V T C R A S G F Y P W N I T L S W R Q D G V S L S H D T Q Q W G D V L P D G N G T Y Q T W V A T R I C Q G E E Q R F T C Y M E H S G N H S T H P V P S G K V L V L Q S H W Q
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	MICA is an MHC class I chain-associated protein and a ligand for the stress signaling protein and natural killer (NK) cell-activating receptor KLRK1/NKG2D. MICA serves as a stress-induced autoantigen recognized by γδ T cells. Tumor cells escape by shedding overexpressed MICA, disrupting the biological function of NKG2D. CRC patients with high MICA expression have poor prognosis. In patients with head and neck squamous cell carcinoma (HNSCC) receiving curative chemoradiotherapy

	(CRT), persistently elevated levels of soluble MICA-related sequences and TGF-β1 mark a higher risk of tumor progression or death.

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