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Datasheet for ABIN1692277
MICA Protein (AA 23-308) (Fc Tag)

Overview

Quantity:	50 µg
Target:	MICA
Protein Characteristics:	AA 23-308
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MICA protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human MHC Class I Polypeptide-Related Sequence A/MICA (C-Fc)
Sequence:	AEPHSLRYNL TVLSWDGSVQ SGFLTEVHLD GQPFLRCDRQ KCKRAKPGQW AEDVLGNKTW DRETRDLTGN GKDLRMTLAH IKDQKEGLHS LQEIRVCEIH EDNSTRSSQH FYYDGELFLS QNLETEEWTM PQSSRAQTLA MNVRNFLKED AMKTKTHYHA MHADCLQELR RYLKSGVVLR RTVPPMVNVT RSEASEGNIT VTCRASGFYP WNITLSWRQD GVSLSHDTQQ WGDVLPDGNG TYQTWATRI CQGEEQRFTC YMEHSGNHST HPVPSGKVLV LQSHWQVDDI EGRMDEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYTT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPPVLDL DGSFFLYSKL TVDKSRWQQG NVFSCSVMH EALHNHYTQKS LSLSPGK
Characteristics:	Recombinant Human MHC Class I Polypeptide-Related Sequence A/MICA (C-Fc)
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	MICA
Alternative Name:	MHC Class I Polypeptide-Related Sequence A/MICA (MICA Products)
Background:	<p>Recombinant Human MHC Class I Polypeptide-Related Sequence A/MICA is produced with our HEK293 expression system. The target protein is expressed with sequence (Ala23-Glu308) of Human MICA fused with a FC tag at the C-terminus.</p> <p>MHC class I polypeptide-related sequence A, also known as MIC-A, PERB11.1 and MICA, is a single-pass type I membrane protein which belongs to the MHC class I family of MIC subfamily. MICA contains one Ig-like C1-type domain and is expressed on the cell surface, although unlike canonical class I molecules does not seem to associate with β-2-microglobulin. It is thought that MICA functions as a stress-induced antigen that is broadly recognized by NK cells, NKT cells, and most of the subtypes of T cells. MICA is the ligand for NK cell activating receptor KLRK1/NKG2D. MICA seems to have no role in antigen presentation. MICA leads to cell lysis by binding to KLRK1.</p>
Molecular Weight:	59.9 kDa
UniProt:	Q29983
Pathways:	Activation of Innate immune Response , Transition Metal Ion Homeostasis , Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.