
MacroCargo™ Mouse Ana-1 with pDNA encoding IL-21 (Nanoparticle System, Magnetic cationic liposomes)

Cat. No.: MTS-1222-YF302

This product is for research use only and is not intended for diagnostic use.

Cell Properties

Product Overview As a therapeutic tool, macrophage cell has a great capacity for delivering cargos because of their intrinsic characteristics. This product is engineered Mouse Ana-1 carried with pDNA encoding IL-21 by Nanoparticle System-Magnetic cationic liposomes. MacroCargo™ products aim to improve the macrophage function and delivery of specific cargos. We also provide custom macrophage delivery systems based on your specific requirements.

Cell Name	Ana-1
Cell Type	Cell Line
Cell Species	Mouse
Cell Background	Ana-1 is a macrophage cell line, isolated from mouse thymus.

Cargo Properties

Cargo Type	Cytokine
Specific Cargo	pDNA encoding IL-21
Cargo Common Name	IL21
Cargo Alternative Names	Za11; IL-21; CVID11
Cargo Full Name	Interleukin 21

Introduction This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

UniprotID	Q9HBE4
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GeneID [59067](#)

Cargo Delivery System Type Nanoparticle System
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Cargo Delivery Approach Magnetic cationic liposomes

Nanoparticle Component DOTAP, DSPC, cholesterol, iron oxide (II, III).

Product Properties

Applications Improve the delivery of macrophages to tumors and its therapeutic efficacy against inflammatory diseases

Mycoplasma Testing Negative

Sterility Testing Negative

Shipping Dry ice

Storage Frozen cells should be stored in a liquid nitrogen tank (-150°C~-190°C) for long term.

Handling Notes Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance. Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line. Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Restriction Research use only