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MacroCargo™ Mouse J774 with pDNA encoding IL-17b (Nanoparticle System, Magnetic cationic liposomes)

Cat. No.: MTS-1222-YF358

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 J774 carried with pDNA encoding IL-17b 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	J774
Cell Type	Cell Line
Cell Species	Mouse
Cell Background	Mouse mononuclear macrophages J774A.1 is a cell line isolated in 1968 from the ascites of an adult, female mouse with reticulum cell sarcoma. This cell line can be used in immunology research.

Cargo Properties

Cargo Type	Cytokine
Specific Cargo	pDNA encoding IL-17b
Cargo Common Name	IL17B
Cargo Alternative Names	NIRF; IL-20; IL-17B; ZCYTO7
Cargo Full Name	Interleukin 17B
Introduction	The protein encoded by this gene is a T cell-derived cytokine that shares sequence similarity with IL17. This cytokine was reported to stimulate the release of TNF alpha (TNF) and IL1 beta (IL1B) from a monocytic cell line. Immunohistochemical analysis of several nerve tissues indicated that this cytokine is primarily localized to neuronal cell bodies. Alternative splicing results in multiple splice variants.
UniprotID	Q9UHF5
GeneID	27190

Cargo Delivery System Type	Nanoparticle System
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