
MacroCargo™ Human THP-1 with pDNA encoding IL-17b (Nanoparticle System, Magnetic cationic liposomes)

Cat. No.: MTS-1222-YF406

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 Human THP-1 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	THP-1
Cell Type	Cell Line
Cell Species	Human
Cell Background	THP-1 is a monocyte isolated from peripheral blood from an acute monocytic leukemia patient. This cell line can be used in immune system disorder research, immunology research, and toxicology 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 Typ 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
