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## MacroCargo™ Human THP-1 with IL-2 (Viral System, Lentivirus)

Cat. No.: MTS-1222-YF393

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 IL-2 by Viral System-Lentivirus. 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	IL-2
Cargo Common Name	IL2
Cargo Alternative Names	IL-2; TCGF; lymphokine
Cargo Full Name	Interleukin 2
Introduction	This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4+ and CD8+ T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and IL7. The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

UniprotID	<a href="#">P60568</a>
GeneID	<a href="#">3558</a>
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

## Product Properties

Applications	Improve survive; Promote persistence and activation of endogenous or adoptively transferred NK or T cells
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