

## MacroCargo™ Mouse J774 with IL-12 (Viral System, Lentivirus)

Cat. No.: MTS-1122-YF187

**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 IL-12 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	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	IL-12
Cargo Common Name	IL12
Cargo Alternative Names	IL12; IL-12; Interleukin 12
Cargo Full Name	Interleukin 12
Introduction	Interleukin-12 (IL-12) is a heterodimeric cytokine produced mostly by phagocytic cells in response to bacteria, bacterial products, and intracellular parasites, and to some degree by B lymphocytes. IL-12 induces cytokine production, primarily of IFN-gamma, from NK and T cells, acts as a growth factor for activated NK and T cells, enhances the cytotoxic activity of NK cells, and favors cytotoxic T lymphocyte generation.
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

## Product Properties

Applications	Positive regulator of M1 polarization of macrophage; 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