

MacroCargo™ Mouse J774 with Soluble transforming growth factor beta receptor II (sTGFβRII) (Viral System, Lentivirus)

Cat. No.: MTS-1122-YF195

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 Soluble transforming growth factor beta receptor II (sTGFβRII) 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	Protein
Specific Cargo	Soluble transforming growth factor beta receptor II (sTGFβRII)
Cargo Common Name	TGFB2
Cargo Alternative Names	AAT3; FAA3; LDS2; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TBR1; TBR-ii; TGFR-2; tbetaR-II; TGFbeta-RII
Cargo Full Name	Transforming growth factor beta receptor 2
Introduction	The protein encoded by this gene is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with TGF-beta receptor type-1, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of genes related to cell proliferation, cell cycle arrest, wound healing, immunosuppression, and tumorigenesis. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors.

UniprotID	P37173
GeneID	7048
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

Product Properties

Applications	Promote cytotoxic immune response
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