

MacroCargo™ Human THP-1 with FPN1 (Viral System, Lentivirus, Fe3O4-nanoparticles)

Cat. No.: MTS-1122-YF245

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 FPN1 by Viral System-Lentivirus, Fe3O4-nanoparticles. 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	Protein
Specific Cargo	FPN1
Cargo Common Name	SLC40A1
Cargo Alternative Names	FPN; FPN1; HFE4; MTP1; IREG1; MST079; MSTP079; SLC11A3
Cargo Full Name	Solute carrier family 40 member 1
Introduction	The protein encoded by this gene is a cell membrane protein that may be involved in iron export from duodenal epithelial cells. Defects in this gene are a cause of hemochromatosis type 4 (HFE4).
UniprotID	Q9NP59
GeneID	30061
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus, Fe3O4-nanoparticles

Product Properties

Applications	Induce macrophage polarization into the M1 phenotype; Inhibits tumor growth
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