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MacroCargo™ Human THP-1 with IL-10 (Viral System, Lentivirus)

Cat. No.: MTS-1222-YF392

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 be cause of their intrinsic characteristics. This product is engineered Human THP-1 car ried with IL-10 by Viral System-Lentivirus. MacroCargo™ products aim to improve th e macrophage function and delivery of specific cargos. We also provide custom mac rophage 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 leuke mia patient. This cell line can be used in immune system disorder research, immuno logy research, and toxicology research.

Cargo Properties

Cargo Type	Cytokine
Specific Cargo	IL-10
Cargo Common Name	IL10
Cargo Alternative Names	CSIF; TGIF; GVHDS; IL-10; IL10A
Cargo Full Name	Interleukin 10
Introduction	The protein encoded by this gene is a cytokine produced primarily by monocytes an d to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immuno regulation and inflammation. It down-regulates the expression of Th1 cytokines, MH C class II Ags, and costimulatory molecules on macrophages. It also enhances B cel l survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Kno ckout studies in mice suggested the function of this cytokine as an essential immun oregulator in the intestinal tract. Mutations in this gene are associated with an incre ased susceptibility to HIV-1 infection and rheumatoid arthritis.
UniprotID	P22301

GeneID	3586
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