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MacroCargo™ Human THP-1 with Anti-LIF antibody (Viral System, Lentivirus)

Cat. No.: MTS-1222-YF423

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 Anti-LIF antibody by Viral System-Lentivirus. MacroCargo™ products aim t o 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 leuke mia patient. This cell line can be used in immune system disorder research, immuno logy research, and toxicology research.

Cargo Properties

Cargo Type	Checkpoint antibody
Specific Cargo	Anti-LIF antibody
Target Common Name	LIF
Target Alternative Names	CDF; DIA; HILDA; MLPLI
Target Full Name	LIF interleukin 6 family cytokine
Introduction	The protein encoded by this gene is a pleiotropic cytokine with roles in several diffe rent systems. It is involved in the induction of hematopoietic differentiation in norma l and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also hav e a role in immune tolerance at the maternal-fetal interface. Alternatively spliced tra nscript variants encoding multiple isoforms have been observed for this gene.
UniprotID	P15018
GeneID	3976

Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

Product Properties

Applications	Enhance the immune system against cancer
References	Marin-Acevedo, Julian A., ErinMarie O. Kimbrough, and Yanyan Lou. "Next generation of immune checkpoint inhibitors and beyond." *Journal of hematology & oncology* 14 (2021): 1-29. Distributed under Open Access license CC BY 4.0, without modification.
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