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MacroCargo™ Human Monocyte-derived Macrophages (MDMs) with VISTA gRNA (Viral System, Adenovirus)

Cat. No.: MTS-1122-YF313

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 Monocyte-derived Macrophages (MDMs) carried with VISTA gRNA by Viral System-Adenovirus. 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	Monocyte-derived Macrophages (MDMs)
Cell Type	Primary Cell
Cell Species	Human
Cell Background	The culture of human monocyte-derived macrophages (MDMs) represents a tool to study macrophages, with monocytes known to give rise to tissue macrophages influenced by certain environmental cues.

Cargo Properties

Cargo Type	CRISPR KO
Specific Cargo	VISTA gRNA
Target Common Name	VSIR
Target Alternative Names	Enables endopeptidase activator activity; enzyme binding activity; and identical protein binding activity. Involved in several processes, including negative regulation of cytokine production; positive regulation of macromolecule metabolic process; and regulation of T cell activation. Located in plasma membrane.
Target Full Name	V-set immunoregulatory receptor
Introduction	Enables endopeptidase activator activity; enzyme binding activity; and identical protein binding activity. Involved in several processes, including negative regulation of cytokine production; positive regulation of macromolecule metabolic process; and regulation of T cell activation. Located in plasma membrane.
UniprotID	Q9H7M9

GeneID	64115
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Adenovirus

Product Properties

Applications	Prevent cancer cells from evading immune clearance
References	Brom, Victoria C., et al. "The role of immune checkpoint molecules on macrophages in cancer, infection, and autoimmune pathologies." *Frontiers in Immunology* 13 (2022): 837645. 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