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MacroCargo™ Mouse Bone Marrow-derived Macrophages (BMDM) with Oncolytic virus (Co-culture System)

Cat. No.: MTS-1122-YF93

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 Mouse Bone Marr ow-derived Macrophages (BMDM) carried with Oncolytic virus by Co-culture Syste m. MacroCargo™ products aim to improve the macrophage function and delivery of specific cargos. We also provide custom macrophage delivery systems based on yo ur specific requirements.
Cell Name	Bone Marrow-derived Macrophages (BMDM)
Cell Type	Primary Cell
Cell Species	Mouse
Cell Background	The broad use of transgenic and gene-targeted mice has established bone marrow-derived macrophages (BMDM) as important mammalian host cells for investigation o f the macrophages biology.

Cargo Properties

Cargo Type	Oncolytic virus
Specific Cargo	Oncolytic virus
Introduction	Oncolytic viruses provide direct cancer cell lysis, stimulate systemic immune respon ses, and have the capacity to provide therapeutic transgenes. Oncolytic virotherapy has shown great promise in many preclinical solid tumor models and the first oncoly tic virus has been approved by the FDA for the treatment of advanced melanoma. A s monotherapies for solid tumors, oncolytic virotherapy provides only moderate anti-tumor effects.The specific oncolytic virus will be determined according to specific re quirements.
Cargo Delivery System Typ e	Co-culture System

Product Properties

Applications	Treatment for multiple cancers
References	Kono, Yusuke, et al. "Enhanced macrophage delivery to the colon using magnetic lip oplexes with a magnetic field." *Drug Delivery* 26.1 (2019): 935-943. Distributed und er 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 ter m.
Handling Notes	Frozen cells should be thawed immediately upon receipt and grown according to ha ndling 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 immediatel y upon receipt and grown according to handling procedure.
Restriction	Research use only