

## 14-1016: Human Peripheral Blood Monocyte-Derived Macrophages(Discontinued)

### Description

Upon tissue damage or infection, monocytes leave the bloodstream and are rapidly recruited to the tissue, where they differentiate into tissue macrophages. Part of the innate immunity, macrophages are specialized cells that recognize, engulf and destroy target cells or pathogens. They are remarkably plastic and can change their functional phenotype depending on the various microbes or invaders they encounter. Along with their ability to clear pathogens, macrophages can also instruct other immune cells to take part in the immune response by acting as an antigen-presenting cell (APC).

The isolation of mature macrophages from tissue can be difficult. Therefore the use of monocyte-derived macrophages (MDM) for functional studies is a very attractive alternative. Non-monocytes are depleted from the mononuclear cell population using immunomagnetic particles leaving purified, untouched CD14<sup>+</sup> monocytes. The untouched monocytes are cultured for 4-5 days with 10% FBS in the presence of M-CSF and IL-4. After culture, cells are checked for the expression of CD11b, CD18, CD68, and HLA-DR by flow cytometry.

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

### Product Info

<b>Amount :</b>	1 Vial
<b>Content :</b>	Each cryopreserved vial contains 1.5 million cells. Preserved in CryoStor <sup>®</sup> ,ç CS10 (10% DMSO)
<b>Storage condition :</b>	Immediately upon receipt, store in liquid nitrogen.

### Application Note

#### LIMITED USE RESTRICTIONS:

**THIS PRODUCT IS SOLELY FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

**By use of this product, user agrees to be bound by the terms of this limited use statement.**

This product is **solely for Internal Research Purposes** and **not for Commercial Purposes**. Commercial Purposes include, but are not limited to (1) use of the cell line in manufacturing; (2) use of the cell line to provide a service, information or data; (3) use of the cell line for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the cell line whether or not such cell lines are resold for use in research.

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