***** abeomics

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14-1017: Human Peripheral Blood Monocyte-Derived Immature Dendritic Cells(Discontinued)

Description

Dendritic cells (DCs) form a critical interface between innate and adaptive immunity. DCs continuously

sample their environment for antigens by means of endocytosis. Referred to as an antigen-presenting cell

(APC), DCs capture, process and present these antigens to naïve T-helper cells to initiate an immune

response. There is great heterogeneity in DC phenotypes due to their stage of differentiation or according

to their response and interaction with cytokines and/or growth factors in their microenvironment. This can

make isolating a specific subset of DCs challenging. Additionally, each subset is rare in number,

compounding the difficulty in isolating these cells. Culturing of CD14+ monocytes in the presence of specific

growth factors and cytokines can induce differentiation into immature DCs (iDC), known as monocyte-

derived immature dendritic cells (MoDCs). Cultured immature dendritic cells remove the phenotype

heterogeneity issue as well as the rarity of these cells.

Human peripheral blood monocyte-derived immature dendritic cells are derived from negatively selected

monocytes. Non-monocytes are labeled and depleted from the peripheral blood mononuclear cell population

using immunomagnetic particles leaving purified, untouched monocytes. Untouched monocytes are cultured

for 4-5 days with 10% FBS in the presence of GM-CSF and IL-4. After culture, cells are checked for the

expression of CD11c, HLA-DR, and CD83 and the lack of CD14 expression by flow cytometry.

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

Product Info

Amount:

1 Vial

Content:

Each cryopreserved vial contains 1.5 million cells. Preserved in CryoStorâ, ¢ CS10 (10% DMSO)

Storage condition:

Immediately upon receipt, store in liquid nitrogen.

Application Note

LIMITED USE RESTRICTIONS:

For Research Use Only. Not for use in diagnostic/therapeutics procedures.



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