

14-3004: Human Bone Marrow CD36+ Erythroid Progenitor Cells(Discontinued)

Reactivity : Human

Description

Cell Source: Bone Marrow

Cell Type: Stem/Progenitor Cells

Donor Attributes: HIV-, HepB-, HepC-

Cell differentiation along the erythroid lineage arises from hematopoietic stem cells within the bone marrow. The cell surface marker CD36, which is considered an early marker of erythrocyte differentiation, is acquired as the differentiation of this lineage progresses. However, the rarity and heterogeneity of the CD36 population makes it difficult to isolate in vivo. In order to obtain CD36+ erythroid progenitor cells, CD34+ hematopoietic stem cells are isolated and cultured in serum-free expansion media supplemented with factors formulated to selectively promote the expansion and differentiation of human erythroid progenitor cells.

Human bone marrow CD36+ erythroid progenitor cells are derived from cultured bone marrow CD34+ cells. First, CD34+ cells are positively selected using immunomagnetic anti-CD34 microbeads from bone marrow mononuclear cells. The isolated CD34+ cells are cultured in SFEM, a serum-free expansion media for hematopoietic cells, supplemented with SCF, EPO, and IL-3. Cultured cells are harvested after 10 days. Isolated cells are characterized by flow cytometry to ensure a highly pure and viable cell population.

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

Product Info

Amount :	1 Vial
Purification :	≥90% by Flow Cytometry
Content :	Each cryopreserved vial contains 1 million cells. Preserved in CryoStor [®] , CS10 (10% DMSO)
Storage condition :	Immediately upon receipt, store in liquid nitrogen.

Application Note

For cryopreserved samples, the freeze-thaw cycle may decrease cell viability by 10-15% post-thaw.

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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