

14-2010: Human Cord Blood CD36+ Erythroid Progenitor Cells(Discontinued)

Description

Cell differentiation along the erythroid lineage arises from hematopoietic stem cells within cord blood. 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 (HSC) are isolated and cultured in serum-free expansion media supplemented with factors formulated to promote the expansion and differentiation of human erythroid progenitor cells.

Human cord blood CD36+ erythroid progenitor cells are derived from cultured cord blood CD34+ cells. First, CD34+ cells are positively selected using immunomagnetic anti-CD34 microbeads from cord blood mononuclear cells. The isolated CD34+ cells are cultured in StemSpan™ 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.

Cord blood is collected from mothers that are negative for HIV, HepB, and HepC during pregnancy. Testing on cord blood can be provided as a custom order.

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

Product Info

Amount :	1 Vial
Content :	Each cryopreserved vial contains 1 million cells. Preserved in StemSpan and 10% DMSO
Storage condition :	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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