

## 14-3005: Human Bone Marrow CD105+ Endothelial Cells(Discontinued)

**Reactivity :** Human

### Description

**Cell Source:** Bone Marrow

**Cell Types:** Endothelial and Mesenchymal Cells

**Donor Attributes:** HIV-, HepB-, HepC

CD105 is a 90 kD homodimeric type I integral membrane glycoprotein, also known as endoglin. It is expressed on endothelial cells within endothelial tissue. However, CD105+ cells can also be isolated from human bone marrow. Upon culturing, these CD105+ cells show similar characteristics to plastic-adherent mesenchymal stem cells (MSCs). Cultured CD105+ cells express CD105, CD44, CD29, CD90 and CD106 but do not express CD14, CD34, CD45, or CD31 surface antigens. These cells demonstrate multilineage differential capacity into osteogenic, chondrogenic and adipogenic lineages.

Human bone marrow CD105+ cells are positively selected using immunomagnetic anti-CD105 microbeads from bone marrow mononuclear cells. 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

<b>Amount :</b>	1 Vial
<b>Purification :</b>	≥80% by Flow Cytometry
<b>Content :</b>	Each cryopreserved vial contains 0.2 million cells. Preserved in CryoStor <sup>®</sup> , 4 CS10 (10% DMSO)
<b>Storage condition :</b>	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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