Cryopreserved Product
Peripheral Blood CD4+CD25+ Regulatory T Cells
Catalog# PB425002C 2 million cells

Product Description
Human Peripheral Blood CD4+CD25+ Regulatory T Cells are isolated from peripheral blood mononuclear cells in a multi-step process.

First, peripheral blood mononuclear cells are collected using the Spectra Optia® Apheresis System. Next, cells expressing CD8, CD14, CD16, CD19, CD20, CD36, CD56, CD123, TCRγ/δ and CD235a are depleted from the mononuclear cell population using immunomagnetic particles leaving purified, untouched CD4+ T lymphocytes. CD25+ cells are then positively selected using immunomagnetic anti-CD25 particles from the untouched CD4+ T lymphocyte population, leaving highly enriched CD4+CD25+ regulatory T cells (T-regs).

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

Cryopreservation
Cryopreserved products allow for prolonged storage before use. Cell products contain 10% DMSO to minimize cell death during freezing. All cryopreserved products are stored in containers designed and tested for ultra-low temperatures at long time intervals. We normally ship cryopreserved items on dry ice, but can also use a cryoshipper at the customer’s request.

Sample Collection and Processing
All samples are collected on-site at our Stem Cell Collection Center. Apheresis donors are transfused with ACD-A during the collection process. Samples are then quickly processed in our on-site laboratory to achieve maximum viability and quality. Cryopreserved cells are frozen at -1°C/minute in a -80°C freezer, and then transferred to liquid nitrogen.

Infectious disease testing for HIV, HBV, and HCV is performed on a sample of donor blood. Only samples with negative results within 90 days of collection are shipped unless approved by the customer. All testing is performed by a CLIA-certified lab.

Format
Isolated cells are normally frozen in CryoStor™ CS10 (10% DMSO). We can also use freezing media as specified by the customer.

Storage
Cryopreserved cells should be maintained at -135°C or colder (in liquid nitrogen). The cells are warrantied for twelve months from the date of receipt if stored at -135°C or colder. Storage of cells at -80°C for less than one month should maintain cell viability but is not covered by the warranty.

Warning
This product contains human tissue or other biological material and MUST be handled at Biosafety Level 2 or higher. All biological products should be treated as potentially infectious or contaminated material, even if infectious disease screening reports are negative. Follow universal precautions and wear appropriate personal protective equipment.

Product Warranty
For our product warranty, please review our Terms and Conditions at stemexpress.com/terms-and-conditions/.

FOR RESEARCH USE ONLY. NOT APPROVED FOR HUMAN OR VETERINARY USE IN VIVO.