

## Cryopreserved Product

### Cord Blood CD36+ Erythroid Progenitor Cells

Catalog#	CB36001C	1.0 million cells
	CB36002C	2.0 million cells
	CB36002.5C	2.5 million cells

## Product Description

Human Umbilical Cord Blood CD36+ Erythroid Progenitor Cells are derived from cord blood CD34+ hematopoietic stem cells (HSCs).

Whole umbilical cord blood is needle aspirated from the umbilical cord vein using a cord blood collection bag. This material is derived from a human source and may contain 35 mL of citrate phosphate dextrose (CPD). Mononuclear cells (MNCs) are enriched from the cord blood using a density gradient centrifugation protocol. CD34+ cells are selected from the mononuclear cell pool using immunomagnetic anti-CD34 microbeads. The isolated CD34+ cells are then cultured in StemSpan™ SFEM, a serum-free expansion media for hematopoietic cells, supplemented with SCF, EPO and IL-3, to generate CD36+ cells. Cultured cells are harvested after 10 days and checked for the expression of CD36.

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 at nearby partner hospitals or clinics. 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 cord blood by a CLIA-certified lab.

## Format

Isolated stem/progenitor cells are frozen in StemSpan + 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 warranted 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.

## Thawing Instructions for Cell Products

Refer to our "How to thaw StemExpress primary cells for optimal viability?" under our Frequently Asked Questions at [stemexpress.com/faqs/](http://stemexpress.com/faqs/) to access our online Thawing Protocol.

## 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/](http://stemexpress.com/terms-and-conditions/).

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