

Product Information

Human Peripheral Blood Mononuclear Cells (PBMC, Individual Donor)

Catalog Number	10HU-003	Cell Number	5 million, 10 million, 15 million, 25 million, 50 million, 100 million, 200 million, 350 million, 500 million cells/vial
Species	<i>Homo sapiens</i>	Storage Temperature	Liquid Nitrogen

Description

Peripheral Blood Mononuclear Cells (PBMCs) is any blood cell with a single nucleus^[1]. These blood cells are a critical component in human immune system to fight pathogen. PBMCs consist of lymphocytes (T, B and NK cells), monocytes and dendritic cells^[2]. PBMCs are widely used in research fields including immunology, infectious diseases and hematological malignancies etc.

iXCells Biotechnologies offers PBMCs from the human peripheral blood of individual healthy donors. These PBMCs are purified from peripheral blood using Ficoll gradient centrifugation.

Product Details

Tissue	Human peripheral blood (Individual donor)
Package Size	5 million, 10 million, 15 million, 25 million, 50 million, 100 million, 200 million, 350 million, 500 million cells/vial
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Suspension
Media	Blood Cell Culture Medium (Cat # MD-0007)

Protocols

Thawing of Frozen Cells

1. Upon receipt of the frozen cells, it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.
2. To thaw the cells, put the vial in 37°C water bath with gentle agitation for ~1 minute. Keep the cap out of water to minimize the risk of contamination.
3. Pipette the cells into a 15mL conical tube with 5mL fresh Blood Cell Culture Medium (Cat # MD-0007).
4. Centrifuge at about 450 g for 5 minutes under room temperature.
5. Remove the supernatant and cells are ready for use.

Safety Precaution: *it is highly recommended that protective gloves and clothing should be used when handling frozen vials.*

References

[1] Delves, Peter, et al. Roitt's Essential Immunology, 11th Ed.

[2] Miyahira, Andrea (22 Nov 2012). "Types of immune cells present in human PBMC". *sanguinebio.com*. Retrieved 23 Sep 2014.

Disclaimers

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