

# Human Blood Cell (hBLD) Reprogramming Kit

For induction of human iPSCs from Peripheral Blood Mononuclear Cells (PBMCs)



## Features

- Ready-to-use for blood cell culture, blood cell reprogramming & freezing of iPSCs
- One-step reprogramming
- High efficiency reprogramming
- Serum/feeder-free culture and maintenance
- Easy protocol

## Product Component

### Human Blood Cell Reprogramming Kit-I

- Cat# ST01005-S1 Non-Enzymatic Cell Dissociation Solution (100ml)
- Cat# ST01005-S2/BM Blood Cell Reprogramming Basal Medium (2x500ml)
- Cat# ST01005-S3 DMEM/F12 (60ml)

### Human Blood Cell Reprogramming Kit-II

- Cat# ST01005-S4/BM Blood Cell Basal Medium (2x25ml)
- Cat# ST01005-S4/S Blood Cell Supplement (61µl for 25ml of Basal Medium)
- Cat# ST01005-S5 Polybrene (10µl)
- Cat# ST01005-S6 Matrix (5x100µl)
- Cat# ST01005-S2/S Blood Cell Reprogramming Supplement (2x3.5ml)
- Cat# ST01005-S7 Rock Inhibitor (1000x) (500µl)
- Cat# ST01005-S8 Blood Cell Cryopreservation Solution (10ml)
- Cat# ST01005-S9 Serum-Free Cryopreservation Solution for hPSC (20ml)

### Human Blood Cell Reprogramming Kit-III

- Cat# ST01005-S10-24 Cell Culture Plates (1x24 well)
- Cat# ST01005-S10-12 Cell Culture Plates (1x12 well)
- Cat# ST01005-S10-6 Cell Culture Plates (4x6 well)
- Cat# ST01005-S11 Cell Counter Slides (3pcs)
- Cat# ST01005-S12 Trypan Blue (300µl)
- **Reprogramming Factors (Not supplied)**

Note: Sendai virus reprogramming factors from Life Technologies Inc is strongly recommended, Cat # A16517

## Ordering Information

### Catalog No.

ST01005

### Description

Human Blood Cell (hBLD) Reprogramming Kit

### Pack Size

5 reactions/kit

## Description

**Stemmera™** Human Blood Cell (hBLD) Reprogramming Kit is a ready-to-use and fully chemically defined reprogramming kit which composed of necessary reagents and tools intended for culturing human PBMCs and induction of pluripotent stem cells (hiPSCs) from PBMCs, as well as maintenance of iPSCs under completely serum-free and feeder-free conditions.

## Storage & Handling

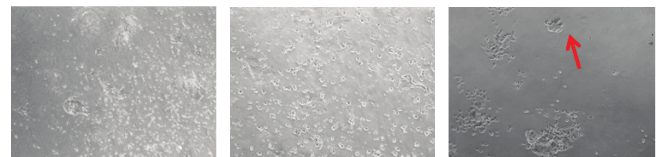
Store all components as directed in manual instruction upon arrival and until the expiration dates stated on the product label. Avoid multiple freeze/thaw cycles. The complete medium should remain stable for 4-6 weeks at 2-8°C. Make aliquot of complete medium for daily use, avoid warm up cycles. Protect from light is preferred.

## Product Use

This product is intended for *in vitro* use and research use only. Not intended for human or animal diagnostic or therapeutic uses.

## Quality Control

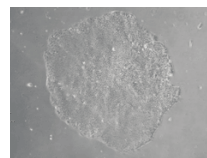
This product is used to reprogram human PBMCs to iPSCs and maintain the pluripotency of human iPSCs under serum-/feeder-free culture condition. To ensure the quality, the following images represent human PBMCs in suspension and the pluripotent morphology of human iPSCs growing on Matrigel with **Stemmera™** Human Blood Cell (hBLD) Reprogramming Medium.



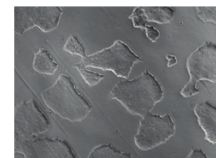
Human PBMCs in suspension

Day 1 post-transduction

Day 10 post-transduction



Day 26 post-transduction



Reprogrammed human iPSCs after picking

## Stemmera Inc

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