Applied StemCell

PRODUCT DATA SHEET

iPSC-Derived Hematopoietic Progenitor Cells With Media

(African-American, Male Line)

Catalog No. ASE-9718-1 RUO • Rev. 1 I August 2026

Product Overview

Applied StemCell has developed an efficient integration-free, small molecule-based method to differentiate high-quality hematopoietic progenitor cells (HPC) from human iPSCs. The differentiated HPCs recapitulate the phenotype and functional parameters of primary and in vivo HPCs. We provide HPCs differentiated from an integration-free, control human iPSC line (ASE-9211), reprogrammed from the fibroblasts of an African-American male donor. These high-purity (> 70%) cells express high levels of HPC biomarker, CD34 (Figure 1). To harness the full potential of our HPCs, we also provide optimized HPC Culture Basal Media (ASE-9718MM) that supports robust maintenance and functionality of the HPCs in culture.

Key Features & Benefits

Feature	Benefit
Ready-to-use format	Reduces differentiation setup time and supports faster experimental starts.
High purity (70%)	Supports consistent, interpretable assay performance.
Defined donor background	Enables traceable use in disease modeling and comparative studies.
Marker-confirmed phenotype	Provides documented identity and quality for each released lot.
Matched culture reagents	Supports recovery, maintenance, and reproducible cell performance.

Product Specifications

Product Type	RUO
Cell Type	Human iPSC-derived hematopoietic progenitor cells
Parental Line / Background	iPSC-Derived Human Hematopoietic Progenitor Cell (HPC) (African-American, Male Line)
Genetic Background	No engineered edits specified in source documentation.
Integration System	Not applicable for this iPSC or iPSC-derived cell product.
Payload Capacity	Not applicable.
Format	Cryopreserved cell kit
Quantity	See ordering information
Storage	Cells: liquid nitrogen; media/ supplements: as labeled (Liq. N2, -20C).
Shelf Life	12 months when stored as directed.

Applications

- Hematopoietic differentiation studies
- Immune-cell development workflows
- Disease modeling
- Drug discovery and screening

Quality Control Summary

Each lot is released against the following quality criteria. Lot-specific results are provided on the accompanying Certificate of Analysis (CoA).

- Post-thaw viability and recovery/growth
- Cell purity: 70%
- Phenotype / identity markers: pathogens
- Mycoplasma and microbial/pathogen testing
- Post-thaw viability

Supporting Data

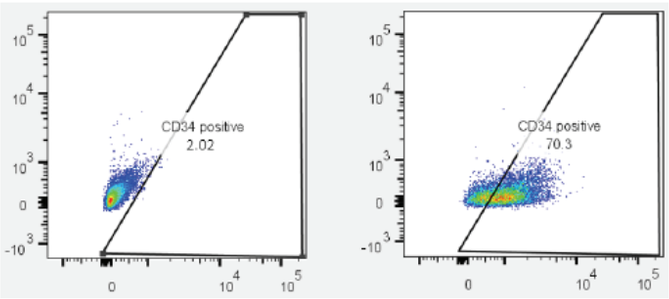


Figure 1. Flow cytometry analysis of ASE-9718 iPSC-derived Hematopoietic Progenitor Cells for an HPC biomarker. Cryopreserved HPCs, differentiated from Applied Stem Cell's control IPSC line, ASE-9211 were recovered in HPC culture basal media. The cells were stained with HPC cell marker, CD34 (right panel) or isotype control (left panel)

Kit Components

Item	Component	Format	Quanity
ASE-9718-C	iPSC-derived HPC cells, African-American male line	Cells	≥1 × 10^6 cells/vial
ASE-9718MM	HPC Culture Basal Media	Media	100 mL

Ordering Information

Catalog No.	ASE-9718-1
Description	iPSC-Derived Human Hematopoietic Progenitor Cell (HPC) Kit (African-American, Male Line)
Format	Kit
Pack Size	1 each

Contact & Ordering

appliedstemcell.com
info@appliedstemcell.com
+1 866.497.4180

Ready to accelerate your genome engineering project?

Scan the QR code or visit our website to explore product details, access technical resources, discover related TARGATT™ solutions, and request a consultation with our scientific team.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Specifications are subject to change; refer to the lot-specific Certificate of Analysis for released values. TARGATT™ and ActiCells™ are trademarks of Applied StemCell, Inc.

© 2026 Applied StemCell
PN: [DS-ASE-9718-1] Rev. [1]