

CelThera™ Stem34 Differentiation Medium AOF

Cat. No. CM-6101

Product Overview

CelThera™ Stem34 Differentiation Medium AOF is a feeder-free, serum-free, animal-origin-free (AOF), and chemically defined medium specifically formulated for hematopoietic differentiation.

The medium enables efficient differentiation of human pluripotent stem cells (hPSCs) into hematopoietic stem and progenitor cells (HSPCs) in both monolayer and embryoid body (EB)-based culture systems. hPSC-derived HSPCs retain multilineage differentiation potential and can be further differentiated into megakaryocytes/platelets, natural killer (NK) cells, and other hematopoietic cell types. The medium serves as a common basal medium throughout the entire differentiation workflow from iPSCs to HSPCs and multiple downstream hematopoietic lineages.

CelThera™ Stem34 Differentiation Medium AOF was developed to address key challenges in hematopoietic differentiation, including batch-to-batch consistency, differentiation efficiency, and process scalability, supporting standardized and scalable hematopoietic cell generation.

Properties

Storage: Store at -20°C

Shelf Life: Stable until expiry date (EXP) on label

Directions for Use

Prepare medium

Thaw CelThera™ Stem34 Differentiation Medium AOF at room temperature (15–25°C) or overnight at 2–8°C. Mix thoroughly after thawing. The thawed medium can be stored at 2–8°C for up to 2 weeks. If not used immediately, aliquot and store at -20°C to minimize repeated freeze-thaw cycles.

Notes:

1. CelThera™ Stem34 Differentiation Medium AOF should be supplemented with appropriate cytokines based on target cell types. A comprehensive panel (Page 2) of ACRO cytokines was employed, including SCF, TPO, FLT3L, IL-3, and other relevant cytokines, have been evaluated in the differentiation workflows. For further details, please contact us or refer to our official website (<https://www.acrobiosystems.com/>).
2. Given the highly robust performance of this medium, high cell expansion may occur during differentiation, which can result in increased cell density and medium acidification. Cell density and medium condition should be monitored regularly, particularly during initial use. If excessive acidification is observed, consider increasing the medium change frequency or culture volume as appropriate.



Related products

Product	Cat. No.	Product	Cat. No.
Human VEGF165 Protein, premium grade	VE5-H4210	Human SCF Protein (HEK293), premium grade	SCF-H5219
Human FGF basic Protein, premium grade	BFF-H4117	Human Flt-3 Ligand Protein (HEK293), premium grade	FLL-H5218
Human SCF Protein (E. coli), premium grade	SCF-H5114	Human IL-7 Protein, premium grade	IL7-H4219
Human Flt-3 Ligand Protein (E. coli), premium grade	FLL-H5115	Human IL-15 Protein (HEK293), premium grade	IL5-H5215
Human Thrombopoietin/TPO Protein, premium grade	THN-H5216	Human PRL Protein	PRN-H5257
Human BMP-4 / BMP2B Protein, premium grade	BM4-H5317	Human IGF-I Protein, premium grade	IG1-H5117
Human IL-3 Protein, premium grade	IL3-H5115	Human IL-11 Protein	IL1-H5243
Human Laminin 511 Protein, premium grade	LA8-H5283L	Human IL-21 Protein, premium grade	IL1-H5213
Human DLL4 Protein, Fc Tag, premium grade (Flagship)	DL4-H5255	Human IL-18 Protein, premium grade	IL8-H5114
Human VCAM-1/CD106 Protein, Fc Tag, premium grade	VC1-H5253	Human IL-2 Protein	IL2-H5215
Recombinant Fibronectin fragment, premium grade	FIN-H5116	Human IL-6 Protein, premium grade	IL6-H4218

Disclaimer

CellThera™ Stem34 Differentiation Medium AOF is designed for research only.

CAUTION: Not intended for direct human use.

