Applied StemCell, Inc
(866) 497-4180
www.appliedstemcell.com

Datasheet

Human Bone Marrow Mononuclear Cells (CML-)

Order Information

Catalog Number	Quantity
ASE-5080	2.5 x 10^6 viable cells/mL
ASE-5081	10.0 x 10^6 viable cells/mL
ASE-5082	25.0 x 10^6 viable cells/mL

Product Information

Description

Human bone marrow mononuclear cells are isolated from whole bone marrow of a single donor. This heterogeneous cell population allows researchers to isolate various cell types of the immune system. Human bone marrow mononuclear cells contain CD34+ stem cells. Human bone marrow mononuclear cells enable researchers to investigate the immune system, stem cells, and regenerative medicine and may be used for developmental studies.

These cells have been isolated from a Philadelphia-negative patient diagnosed with chronic myeloid leukemia (CML-). CML- is characterized by the excessive growth of myeloid cells in the bone marrow, which then accumulate in the blood. CML- samples have been found negative for the Philadelphia chromosome, which is the chromosomal translocation often associated with this disorder.

Origin

Human origin

Development Period

Postnatal

Disease State

Chronic Myeloid Leukemia, Philadelphia-negative (CML-)

Quality Control

All cell processing is validated under strict protocols with IRB approval. All cells are guaranteed to meet or exceed customer's expectations when handled according to instructions.

Passage number: Frozen cells (P0)
Viability: >50%
Cryopreservation solution: 10% DMSO

Test Conditions

Cells are grown and passed to determine sterility and mycoplasma for all lots. In addition, viability is determined prior to and after freezing. All cells are confirmed to be highly pure by molecular, cellular, or protein assays

Applied StemCell, Inc.
521 Cottonwood Drive, Ste 111, Milpitas, CA 95035
Phone: 866-497-4180 (US Toll Free); 408-773-8007 Fax: 408-773-8238
info@appliedstemcell.com www.appliedstemcell.com

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with their specific markers.

Storage and Handling

Handling Instructions	Frozen cells are shipped on dry ice. Upon arrival, place into -196°C (LN2) for long term storage or subculture immediately.
Storage Conditions	Store at -196°C (LN2) upon receipt until ready to culture.
Storage Solution	10% DMSO

References

1. Waksman et al. (2003). Bone marrow and bone marrow derived mononuclear stem cells therapy for the chronically ischemic myocardium. *Cardiovascular Radiation Medicine*. 4(3): 164-8.
2. Hume et al. (2002). The mononuclear phagocyte system revisited. *Journal of Leukocyte Biology*. 72(4): 621-7.
3. Chen et al. (1997). Delineation of the human hematolymphoid system: potential applications of defined cell populations in cellular therapy. *Immunological Reviews*. 157: 41-51.

Precautions and Disclaimers

Warranty	Applied StemCell is committed to providing only superior-quality research products. Our products are specifically intended for research purposes only and are guaranteed to perform according to documented product specifications. Full warranty information for the products may be requested from our technical support or sales team at the numbers provided below.
Product Use/ Safety Statement	**CELLS ARE FOR RESEARCH USE ONLY.** Not approved for human or veterinary use, *in vitro* diagnostics, or clinical procedures.

WARNING: THE ACCOMPANYING PRODUCT CONTAINS HUMAN SOURCE MATERIAL. TREAT AS POTENTIALLY INFECTIOUS. All donors are tested for the presence of HIV-I, Hepatitis B Virus, and Hepatitis C Virus. Furthermore, Gram staining and Acid Staining are performed to rule out bacterial contamination.

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