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Data Sheet

CD8$^+$ T cells, Negatively Selected (Human)
Catalog # 79753
Lot #190612D03

Description

Cryopreserved vial (10 x 10^6 cells) of CD8$^+$ T cells that were negatively selected from freshly isolated primary human peripheral blood mononuclear cells (PBMCs). The PBMCs came from a healthy donor, and were isolated from whole blood or leukapheresis samples using a Ficoll gradient. Magnetic antibodies to monocytes, granulocytes, CD4$^+$ T cells, gamma/delta T cells and other immune subsets present in PBMCs were then used to purify untouched CD8$^+$ T cells via immunomagnetic separation. Before and after CD8$^+$ T cell isolation, the cells were stained to evaluate purity and viability by flow cytometry. Cells were cryopreserved in CryoStor CS10 cryopreservation medium (Stemcell, #07930) at a controlled rate.

Source

Normal human PBMC from Leukapheresis Sample

Stability and Storage

Store cells at -135˚C or colder. Thawed cells should be used immediately for downstream applications. Because these are primary cells, we do not recommend maintaining these cells in culture for long periods of time.

Characterization Criteria

Cell count, viability (trypan blue exclusion and FACS with impermeable DNA binding dye), and surface expression of CD3 and CD8

Medium

Thaw Medium 10 (BPS Bioscience #79704): RPMI 1640 medium (Thermo Fisher, #A1049101) supplemented with 10% FBS (Thermo Fisher, #26140079), 1mM Sodium pyruvate (Corning, #25-000-CL), 1% Non-essential amino acids (Corning, #25-025-CL), 1% Penicillin/streptomycin (Thermo Fisher, #15140122)

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Handling Directions

First, pre-warm Thaw Medium 10 to 37°C. It is important to work quickly in the following steps to ensure high cell viability and recovery. Quickly thaw cells in a 37°C water bath with constant but gentle agitation. Clean the outside of the vial with 70% ethanol and immediately transfer the entire contents to a 50 ml tube. Slowly add 10 ml of pre-warmed medium while gently swirling the tube to mix. Centrifuge the cell suspension at 300 x g for 15 minutes at room temperature. Carefully remove the supernatant with a pipette without disturbing the pellet. Gently resuspend the cell pellet by flicking the tube, then add the desired volume of warm medium, and mix. NOTE: Up to 30% cell loss can be expected during washing steps. Cells are now ready for use in downstream applications.

Donor Screening

Donors have been screened and determined negative for:

- Hepatitis B (anti-HBc EIA, HBsAg EIA)
- Hepatitis C (anti-HCV EIA)
- Human Immunodeficiency Virus (HIV-1/HIV-2 plus O)
- Human T-Lymphotropic Virus (HTLV-I/II)
- HIV-1/HCV/HBV
- West Nile Virus
- Trypanasoma cruzi

Note: *Testing cannot guarantee that any sample is completely virus-free. These cells should be treated as potentially infectious and appropriate biological safety level 2 precautions should be used.*

Donor Demographics and Lot-Specific Information

Donor Gender	Age	Ethnicity	Blood Type	Cryopreservation Date
M	25	Hispanic	O-pos	06-12-2019

Surface Marker Summary

Viability	%CD3+	%CD3+CD8+
95.7%	93.9%	91.2%

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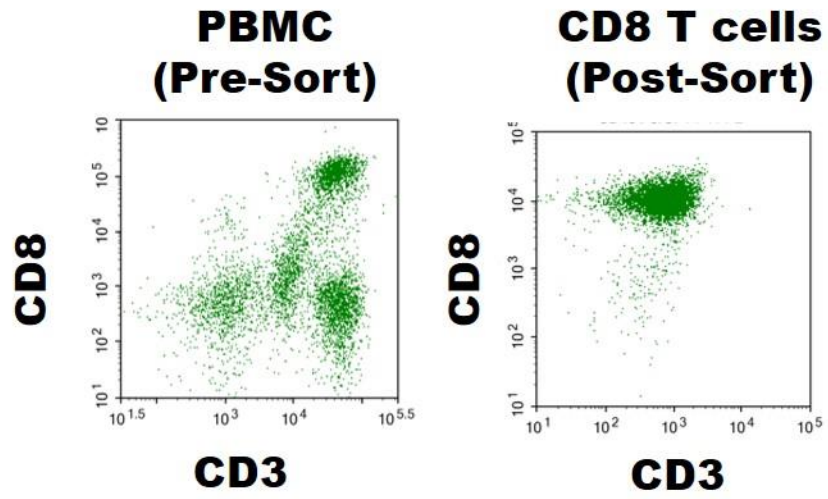
Flow Cytometry Analysis

Results from frozen cells (Lot# 190612D03) that were thawed and washed according to the handling directions.



Related Products

Product	Cat. #	Size
Human CD4+ T cells	79752	10 x 10^6 cells
Normal Human PBMC	79059	30 x 10^6 cells
Thaw Medium 2	60184	100 ml
Human IL-2	90184-A	10 µg