CD3/CD28 Stimulation Reagent

Cat.No. ED7673

Description

Single-use flow cytometry tube for in vitro stimulation of human whole blood

Specification

Active ingredient	anti-CD3 monoclonal antibody (MEM-57)
	anti-CD28 monoclonal antibody (CD28.2)
Content	0.5 μg anti-CD3
	0.5 μg anti-CD28

Reagent provided

Single-use tube with dual position cap containing a mixture of vacuum dried monoclonal antibodies and protective excipients. The mixture was sterilized by filtration prior to vacuum drying.

Storage and handling

Store at room temperature (20 - 30 °C).

The product is shipped within a protective foil bag. Each bag contains 5 tubes. Do not open the bag until the immediate use. Reseal the bag with remaining tubes after removing a tube. Use the tubes within a month after the first opening of the foil bag.

Uncap tubes aseptically in a tissue culture hood.

Shelf-life printed on product labels represents the shelf-life of the unopened product.

Warnings and precautions

The product is intended for a single use only. Dispose the tubes after use as a potentially infectious material.

Wear gloves and protective clothing.

The tubes are closed with dual position caps. Use the ventilation position during cell culture to allow CO₂ exchange between the atmosphere and the culture medium.

Application

Blast transformation of human lymphocytes

Open the bag and remove the necessary number of tubes.

Bring the tubes to the cell culture hood and place them in a suitable rack. Carefully remove caps.

Add 0.5 ml of cell culture medium (e.g. X-VIVO 10 with Gentamycin and Phenol Red, Lonza Cat. No. 04-380Q).

Add 50 µl of specimen (human blood anticoagulated with heparin) and vortex to mix.

Cover the tubes with caps (ventilation position).

Incubate for 3 days at 37 °C in atmosphere with 5 % CO₂.

Analyze lymphocyte proliferation (e.g. T-cell BlastoFlowEx Kit, EXBIO Cat. No. ED7642).

Figure 1. Dual position cap

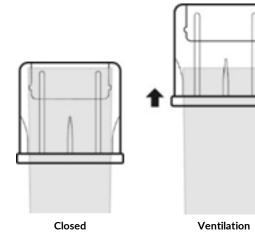
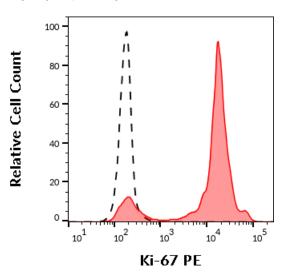


Figure 2. Ki-67 expression in CD3⁺ lymphocytes after 3 days of stimulation with CD3/CD28 Stimulation Reagent

Whole blood was stimulated for 3 days at 37 °C and the response was analyzed with T-cell BlastoFlowEx Kit (EXBIO Cat. No. ED7642). The graph shows distribution of fluorescence in PE detector, the fluorescence intensity corresponds to Ki-67 expression in CD3⁺ lymphocytes (two peaks in CD3/CD28 stimulated sample - red, single negative peak in negative control - black dashed line).



References

Unpublished

Manufacturer

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Revision History

• Version 1, ED7636_TDS_v1

Initial Release

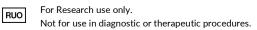
- Version 2, ED7636 TDS v2
- Figures size change. Figure 2 change, negative control line added.

• Version 3, ED7636_TDS_v3 Product Use Limitation text was refined.

Symbols

REF	Catalog number
LOT	Batch code

- Use-by date
- X
- Temperature limits
- []i Consult instructions for use
- Manufacturer





CD3/CD28 Stimulation Reagent

1 test | Cat.No. ED7673

For Research use only. Not for use in diagnostic or therapeutic procedures.

Technical Data Sheet Version ED7673_TDS_v3_EN Date of Issue: 02-03-2020

EN

The product is intended For Research Use Only. Diagnostic or therapeutic applications are strictly forbidden.

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