

T cell Activation Beads

Cat. No. T-3015M Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Beads Size 500 μ L

Capacity Up to 1×10^8 T cells

Formulation Biodegradable matrix-coated nanoparticles conjugated with anti-CD3 and anti-CD28 antibodies supplied in phosphate buffered-saline (PBS), containing Human Serum Albumin (HSA), pH 7.0 - 7.4.

Background

The T cell Activation reagent induces T cell activation and expansion in enriched T cells or PBMCs. The T cell Activation reagent is composed of biodegradable matrix-coated nanoparticles conjugated with mouse anti-human CD3 and mouse anti-human CD28 antibodies. The small sized particulate structure of the activation reagent enables its easy removal by media washing or centrifugation.

The recommended titer of 1:200 has been found to achieve efficient stimulation of majority of T cell subsets. For special applications, the optimal stimulation titer should be determined experimentally. Excessive amount of the T cell Activation reagent may result in over-activation of T cells risking activation-induced cell death. During cell expansion using the T cell Activation reagent, the cells take up to 13 days after reagent application to show optimal expansion. Restimulation after 13 days can be performed for longer cultivation. The T cell Activation reagent can be used together with cytokines such as human IL-2, IL-15, and IL-7 for more efficient activation.

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Application

T cell Activation reagent has been developed for in vitro activation and expansion of enriched T cell populations or cells from hematological cell populations (e.g. PBMCs).

Storage

Store at 2-8 °C. Do not freeze.

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