
Product Data Sheet

Product Name: Human CD3/CD28 T Cell Activation Magnetic Beads

Cat. No.: GC26828

Chemical Properties

Cas. No.

Formula M.Wt

Solubility Storage Store at 4°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

The activation of T cells typically requires TCR/CD3 signaling and CD28 co stimulatory signaling. The TCR/CD3 signal binds to antigen-presenting molecules on antigen-presenting cells through T cell receptors (TCRs) on the surface of T cells, initiating preliminary activation signals. The CD28 co stimulatory signal binds to B7 molecules (such as CD80 and CD86) on antigen-presenting cells through the surface of T cells, providing a second signal that enhances T cell activation, proliferation, and survival.

The activation of human CD3/CD28 T cells by magnetic beads is based on two important co stimulatory signals, CD3 and CD28. Anti-CD3 and Anti-CD28 antibodies coupled to the surface of the magnetic beads can activate TCR and CD28 co stimulatory signals, respectively, without relying on feeder layer cells (antigen-presenting cells) or antigens to activate T cells quickly and easily. During the cell culture process, T cell expansion can be stimulated by adding recombinant human IL-2. After cell activation or expansion, magnetic beads can be removed through a magnetic rack.

This product is suitable for T cell activation of peripheral blood mononuclear cells (PBMCs) or T cell subsets (such as CD3⁺ T cells, CD4⁺ T cells, and CD8⁺ T cells).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA