CREATIVE BIOMART®
Assay Kit

CD28:B7-1[Biotinylated] Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-1705

Product Overview

The activation of native T cells requires two signals, the specific T cell receptor recognition of MHC/Antigen on the surface of the antigen-presenting cell (APC), and the binding of B7-1 (CD80) ligand on the APC with the CD28 receptor on the T cell surface. CD28:B7-1 interaction is an important drug target for the regulation of T cells involved in autoimmunity, inflammation, tumor recognition, and immune tolerance.

Size

96 reactions

Description

The CD28:B7-1[Biotinylated] Inhibitor Screening Assay Kit is designed for screening and profiling inhibitors of CD28:B7-1 signaling. The key to this kit is the high sensitivity of detection of biotin-labeled B7-1 by streptavidin-HRP. Only a few simple steps on a microtiter plate are required for the assay. First, CD28 is coated on a 96-well plate. Next, B7-1 is incubated with CD28 on the plate. Finally, the plate is treated with streptavidin-HRP followed by addition of an HRP substrate to produce chemiluminescence, which can be measured using a chemiluminescence reader.

Applications

This kit is useful for screening for inhibitors of B7-1 binding to CD28.

Storage

Stable at least 6 months from date of receipt, when stored as directed. Kit components require different storage conditions. Be sure to store each component at the proper temperature upon arrival.

Kit Components

B7-1, Biotin-labeled: 2 x 5 µg; -80°C CD28: 10 µg; -80°C Streptavidin-HRP: 15 µl; +4°C 3x CD28 Assay Buffer: 50 ml; -20°C Blocking Buffer: 50 ml; +4°C HRP chemiluminescent substrate A (transparent

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bottle): 6 ml; +4°C HRP chemiluminescent substrate B (brown bottle): 6 ml; +4°C White 96-well microplate: 1; +4°C

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