CREATIVE BIOMART®
Assay Kit

# PD-1[Biotinylated]:PD-L1 Inhibitor Screening Colorimetric Assay Kit

## Product Information

**Cat.No.** Kit-1818

**Size**

96 reactions

**Description**

Cell signaling through the PD-1 receptor upon binding the PD-L1 ligand attenuates immune responses and is exploited by both tumors and viruses. The PD- 1[Biotinylated]:PD-L1 Inhibitor Colorimetric Screening Assay Kit is designed for screening inhibitors of PD-1 receptor binding to PD-L1 ligand. This kit comes in a convenient 96-well format, with biotin-labeled PD-1, purified PD-L1, streptavidin-labeled HRP, and assay buffer for 100 binding reactions. The key to this kit is the high affinity of biotin-labeled PD-1 for streptavidin-HRP. Only a few simple steps on a microtiter plate are required for the assay. First, PD-L1 is coated on a 96-well plate. Next, PD-1 is incubated with PD-L1 on the plate. Finally, the plate is treated with streptavidin-HRP followed by addition of a colorimetric HRP substrate to produce color, which can then be measured using a UV/Vis spectrophotometer microplate reader.

**Applications**

This kit is most useful for screening for inhibitors of PD-L1.

**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**

PD-1, Biotin-labeled: 2 µg; -80°C PD-L1: 10 µg; -80°C Streptavidin-HRP: 15 µl; +4°C 3x PD-1 assay buffer: 50 ml; -20°C Blocking buffer: 50 ml; +4°C Colorimetric HRP substrate: 10 ml; +4°C Transparent 96-well microplate: 1; +4°C

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