

Rev04
 Update: Mar,01,2022

DATASHEET

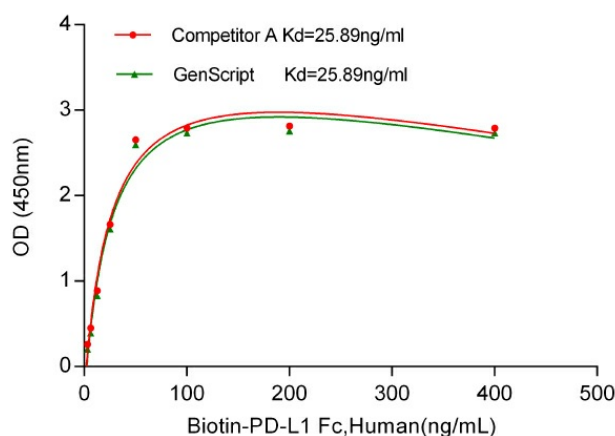
PD-1 Fc Chimera, Human

Cat. No.: Z03370

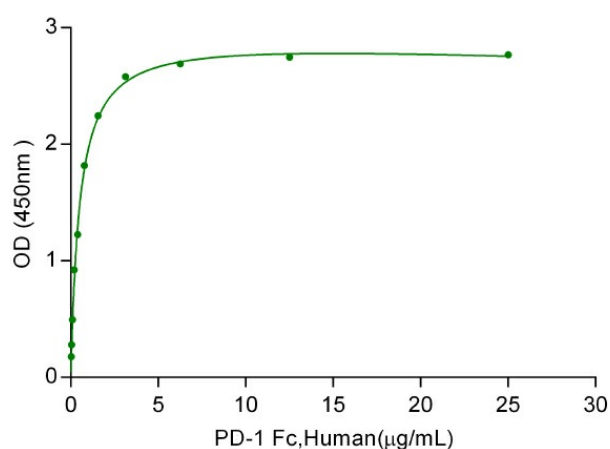
Product Introduction

Species	Human
Protein Construction	<div> <div>PD-1 (Leu25-Gln167) Accession # Q15116</div> <div>hFc</div> </div> <div> <div>N-term</div> <div>C-term</div> </div>
Purity	> 98% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	<p>Assay #1: Immobilized PD-L1, hFc, Human (Cat. No.: Z03371) at 1.0 μg/ml (100 μl/well) can bind biotinylated PD-1, hFc, Human.</p> <p>Assay #2: Immobilized PD-L1, His, Human (Cat. No.: Z03425) at 2.0 μg/ml (100 μl/well) can bind PD-1, hFc, Human.</p>
Expression System	CHO
Apparent Molecular Weight	60~65 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



GenScript product showed equal activity compared to competitor A.



Immobilized PD-L1-His, Human (Cat.No.Z03425) at 2 μg/mL (100 μL/well) can bind PD-1, Fc, Human with a linear range of 0.024-0.39 μg/mL.

Background

Target Background : Programmed cell death protein 1, also known as PD-1 and CD279 (cluster of differentiation 279) or PDCD1, is a protein that in humans is encoded by the PDCD1 gene. PD-1 is a cell surface receptor that belongs to the immunoglobulin superfamily and is expressed on T cells and pro-B cells. PD-1 binds two ligands, PD-L1 and PD-L2. PD-1 and its ligands play an important role in down regulating the immune system by preventing the activation of T-cells, which in turn reduces autoimmunity and promotes self-tolerance. The inhibitory effect of PD-1 is accomplished through a dual mechanism of promoting apoptosis (programmed cell death) in antigen specific T-cells in lymph nodes while simultaneously reducing apoptosis in regulatory T cells (suppressor T cells)

Synonyms : PD-1; CD279; PDCD1; Programmed cell death 1

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.