

Recombinant Cynomolgus PDCD1, His-tagged

PDCD1-5223C Cynomolgus Monkey

Lot. No. (See product label)

Specification

Product Overview

Recombinant Cynomolgus PDCD1 /PD1 Protein (Cynomolgus PDCD1) Pro 21 - Gln 167 (Accession # ABR15751.1) was produced in human 293 cells (HEK293)

Description

Programmed cell death protein 1 (PD-1) also known as CD279 and PDCD1, is a type I membrane protein and is a member of the extended CD28/CTLA-4 family of T cell regulators. PDCD1 is expressed on the surface of activated T cells, B cells, macrophages, myeloid cells and a subset of thymocytes. PD-1 has two ligands, PD-L1 and PD-L2, which are members of the B7 family. PD-L1 is expressed on almost all murine tumor cell lines, including PA1 myeloma, P815 mastocytoma, and B16 melanoma upon treatment with IFN- γ . PD-L2 expression is more restricted and is expressed mainly by DCs and a few tumor lines. PD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN- γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PD1 inhibits BCR-mediated signal by dephosphorylating key signal transducer. In vitro, treatment of anti-CD3 stimulated T cells with PD-L1-Ig results in reduced T cell proliferation and IFN- γ secretion. Monoclonal antibodies targeting PD-1 that boost the immune system are being developed for the treatment of cancer.

Source

HEK293 Cells

Species

Cynomolgus

Tag

His

Predicted N Terminal

Pro 21

Form

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

Molecular Mass

17.3 kDa. DTT-reduced Protein migrates as 26-45 kDa due to different glycosylation.

Endotoxin

Less than 1.0 EU per μ g of the Cynomolgus PDCD1 by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Storage

Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

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