

Human PD-1 Monoclonal Antibody

Catalog No.: YR0096

Basic Information

Molecular Weight

150 kDa

Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

Sterility

0.2 μm filtration

Aggregation

<5% Determined by SECP

Purity

>95% Determined by SDS-PAGE

Background

Cemiplimab Biosimilar uses the same protein sequences as the therapeutic antibody cemiplimab. PD-L1 and PD-L2 (B2-DC or CD273, programmed cell death ligand 2) are the two ligands for the receptor PD-1 (CD279, programmed cell death protein 1). Cemiplimab (anti-PD-1) is an intravenous human monoclonal antibody directed against programmed cell death-1 receptor (PD-1) and blocks its interaction with programmed death ligands 1 (PD-L1) and 2 (PD-L2). Cemiplimab blocks T-cell inactivation and enhances the immune system's anti-tumor response. Binding of the programmed death receptor (PD) ligands PD-L1 and PD-L2, to the PD-1 receptor inhibits T-cell proliferation and cytokine production. The upregulation of PD-1 ligands occurs in some tumors and signaling through this pathway may contribute to the inhibition of active T-cell immune surveillance of tumors. Cemiplimab is a recombinant human immunoglobulin G4 (IgG4) monoclonal antibody that binds to the PD-1 receptor and blocks its interaction with PD-L1 and PD-L2 ligands, causing PD-1 pathway-mediated inhibition of the immune response, including the anti-tumor immune response. In mouse tumor models, blocking PD-1 activity resulted in decreased rates of tumor growth.

Reported Applications

ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways

Immunogen Information

Clone

Cemiplimab Biosimilar

Isotype

human IgG4 kappa

Immunogen

Human PD-1

Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG4-S228P Kappa Isotype Control Antibody

Recommended Dilution Buffer

1×PBS pH 7.0

Contact

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Product Information

Production

Purified from cell culture supernatant in an animal-free facility

Purification

Protein A or G purification

Storage

2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)