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Human PD-1 Monoclonal Antibody

Catalog No.: YR0088

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

What is Nivolumab biosimilar research grade? Nivolumab is a humanized IgG4 antibody targeting the immune checkpoint programmed death receptor-1 (PD-1). This antibody was produced entirely in mice and grafted onto human kappa and IgG4 Fc region with the mutation S228P for additional stability and reduced variability. Nivolumab Biosimilar uses the same protein sequences as the therapeutic antibody nivolumab.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).Nivolumab blocks PD-1 inhibitory signalling to T-cells. It has a long duration of action as it is administered every 2-4 weeks. Patients should be counselled regarding the risk of immune-mediated adverse effects, infusion-related adverse effects, complications of allogenic hematopoietic stem cell transplants, embryo-fetal toxicity.The ligands PD-L1 and PD-L2 bind to the PD-1 receptor on T-cells, inhibiting the action of these cells. Tumor cells express PD-L1 and PD-L2. Nivolumab binds to PD-1, preventing PD-L1 and PD-L2 from inhibiting the action of T-cells, restoring a patient's tumor-specific T-cell response.

Reported Applications

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

Immunogen Information

Clone
Nivolumab Biosimilar

Isotype
human IgG4 kappa

Immunogen
Recombinant human PD-1-Fc protein

RecommendedIsotype Control(s)
In Vivo Grade Recombinant Human IgG4-S228P Kappa Isotype Control Antibody

Recommended Dilution Buffer
1×PBS pH 6.0

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

Production
Purified from cell culture supernatant in an animal-free facility

Purification
Protein A or G purification

Storage
Store at -20℃