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Human PD-L1 Monoclonal Antibody

Catalog No.: YR0140

Basic Information

Molecular Weight

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

Envafolimab is a humanized nanobody (VHH-hIgG1 Fc fusion protein) directed against the human protein ligand PD-L1, with potential immune checkpoint inhibitory and antineoplastic activities. Envafolimab biosimilar uses the same protein sequences as the therapeutic antibody envafolimab.PD-L1 (B7-H1 or CD274, programmed cell death ligand 1) and PD-L2 (B2-DC or CD273, programmed cell death ligand 2) are the two ligands for the receptor PD-1 (CD279, programmed death 1). PD-L1 is an immune checkpoint molecule expressed on both tumor cells and certain immune cells. The binding of PD-L1 to its receptors PD-1 or B7.1 on activated T cells causes an inhibitory signal to suppress their production in the lymph nodes, thereby preventing immune responses to events such as pregnancy or autoimmune disease. This pathway is also utilized by cancer cells to evade the immune system through evasion of anti-tumor T-cell response. Furthermore, over-expression of PD-L1 and PD-1 has been linked to increased tumor aggressiveness and poorer prognosis. Envafolimab binds directly and selectively to PD-L1 and blocks interaction with both PD-1 and B7.1 receptors, thus reinvigorates and enhances the body's adaptive anti-cancer activity. Disrupting the PD-L1/B7.1 interaction may also enhance T-cell priming, which could result in increased duration of response and survival.

Reported Applications

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

Immunogen Information

Clone
Envafolimab Biosimilar

Isotype
Human IgG1 Fc

Immunogen
Human CD274

RecommendedIsotype Control(s)
In Vivo Grade Recombinant Human IgG1 Fc Protein

Recommended Dilution Buffer
1×PBS pH 6.0

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
Store at -20℃