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Datasheet for ABIN7200667

## Recombinant anti-PDCD1 (Nivolumab Biosimilar) antibody

### Overview

Quantity:	1 mg
Target:	PDCD1 (Nivolumab Biosimilar)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This PDCD1 (Nivolumab Biosimilar) antibody is un-conjugated
Application:	In vivo Studies (in vivo), Flow Cytometry (FACS)

### Product Details

Purpose:	Nivolumab Biosimilar, Human PD-1 Monoclonal Antibody
Immunogen:	The anti-human programmed cell death protein 1 (PD-1) monoclonal antibody nivolumab biosimilar was produced in the nivolumab biosimilar CHO stable cell line.
Clone:	5C4-B8
Isotype:	IgG4 kappa
Specificity:	The in vivo grade nivolumab biosimilar specifically binds to PD-1, antagonizing its interaction with its known ligands PD-L1 and PD-L2.
Characteristics:	Recombinant Humanized IgG4 Monoclonal Antibody.
Purification:	Protein A affinity column
Purity:	> 95% by SDS-PAGE under reducing conditions and HPLC.

## Product Details

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Sterility:	0.2 µm filtered
Endotoxin Level:	< 1 EU per 1 mg of the protein by the LAL method.

## Target Details

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Target:	PDCD1 (Nivolumab Biosimilar)
Abstract:	<a href="#">PDCD1 (Nivolumab Biosimilar) Products</a>
Target Type:	Biosimilar
Background:	<p>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.</p> <p>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).</p> <p>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.</p> <p>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.</p>

## Application Details

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Application Notes:	ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by nivolumab.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
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## Handling

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Concentration:	1 mg/mL
Buffer:	PBS, pH 7.4, no stabilizers or preservatives.
Preservative:	Without preservative
Handling Advice:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.
Expiry Date:	12 months