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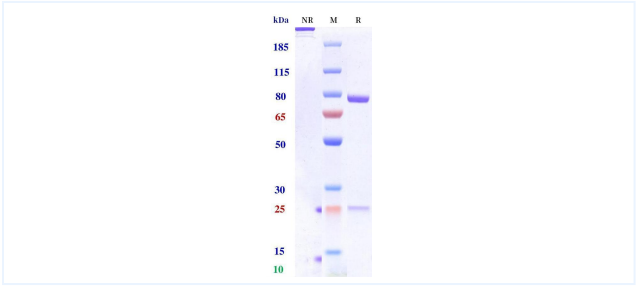
Product Details

Product name:	**Anti-PD-1 & VEGF (Ivonescimab Biosimilar)**	**SKU:**	**BIO1019SM**
Target Name:	**PD-1 & VEGF**	**Size:**	**100ug/ 1mg/ 5mg**
Target Uniprot:	**Q15116 & P15692**	**Concentration:**	**Lyophilized**
Clone#:	**Ivonescimab (Bispecific)**	**Isotype:**	**IgG-ScFv**
Reactivity:	**Human**	**Calculated M.W.:**	**201.12 kDa**
Application:	**ELISA, Bioactivity: FACS, Functional assay, Research in vivo**	**Endotoxin:**	**<0.001 EU/ug**
Formulation:	**100 mM Pro-Ac 20mM Arg pH 5.0**	**Conjugation:**	**None**
Storage:	**-20°C for 2 years under sterile conditions； -20°C for 1 year under sterile conditions；Avoid repeated freeze-thaw cycles.**	**Expression System:**	**CHO**
Reconstitution:	**Dissolve with sterile ddH₂O**	**Purification:**	**Protein A**

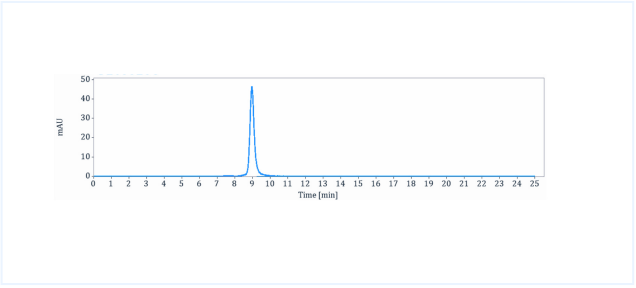
Data

Purity: SDS-PAGE



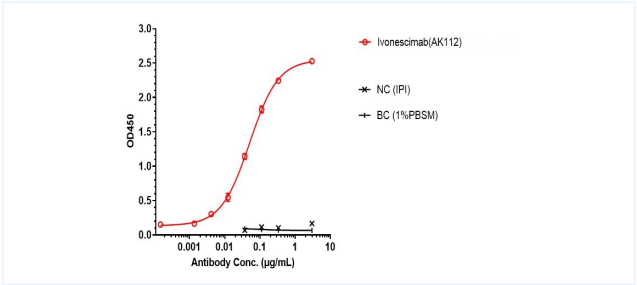
Anti-PD-1 & VEGF Reference Antibody (Ivonescimab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

Purity: SEC-HPLC



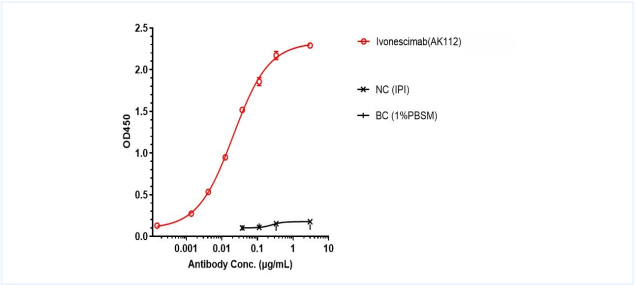
The purity of Anti-PD-1 & VEGF Reference Antibody (Ivonescimab)is 98.33% , determined by SEC-HPLC.

ELISA



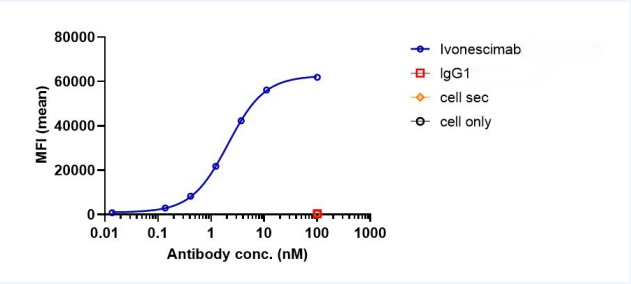
Ivonescimab bound to PD-1 protein, and then rebounded to secondary antibodies(Anti-human-IgG-Fc-HRP) , and read OD450. As shown in fig , Ivonescimab bound to huPD-1-His, and the EC50 was 0.051 nM.

ELISA



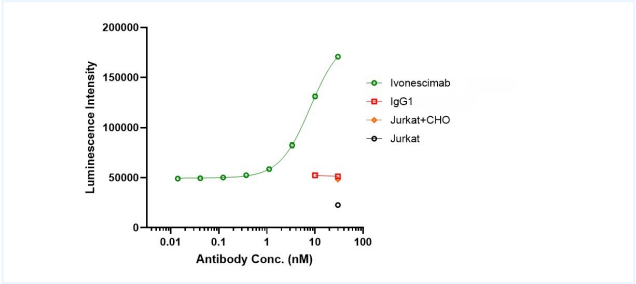
Ivonescimab bound to VEGFA protein, and then rebounded to secondary antibodies(Anti-human-IgG-Fc-HRP) , and read OD450. As shown in fig , Ivonescimab bound to huVEGFA-His, and the EC50 was 0.021 nM.

Bioactivity: FACS



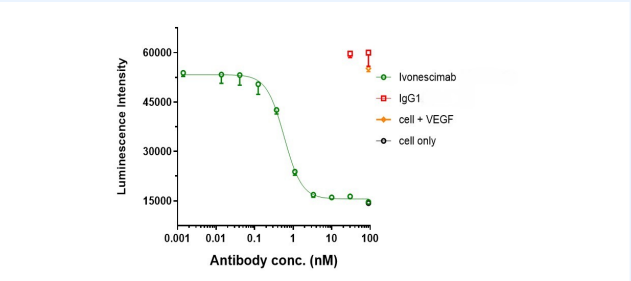
Ivonescimab bound to huPD-1-Jurkat cells, and then rebounded to fluorescent secondary antibodies(Anti-human IgG, Fcγ PE) , and test by flow cytometry. As shown in fig, Ivonescimab bound to huPD-1-Jurkat cells, and the EC50 was 6.274 nM.

Function: Luciferase



Co-incubation of Ivonescimab with PD-1-NF-AT-Jurkat and CD3L-huPD-L1-CHO-K cells and incubated for 6 hours. Bright-Lite was used to detect the fluorescent signal. As shown in fig, Ivonescimab was able to block the PD-1/PD-L1 signaling pathway,and the EC50 was 7.957 nM.

Function: Luciferase



Co-incubation of Ivonescimab with VEGF protein, then with the addition of VEGF-NF-AT-HEK293 cells and incubated for 6 hours. Bright-Lite was used to detect the fluorescent signal. As shown in fig, Ivonescimab can neutralize VEGF -165, and the IC50 was 7.957 nM.