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Product Data Sheet

Cetrelimab

Cat. No.:	HY-P99499
CAS No.:	2050478-92-5
Target:	PD-1/PD-L1; Interleukin Related; TNF Receptor
Pathway:	Immunology/Inflammation; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIV			
Description	Cetrelimab (JNJ 637232 block the interaction of	283; JNJ 3283) is a human IgG4κ mAb targeting PD-1. Cetrelimab binds PD-1 (K _d =1.72 nM, HEK293) to PD-1 with PD-L1 and PD-L2 (IC ₅₀ s=111.7 ng/mL and 138.6 ng/mL, respectively). Cetrelimab cells, increases IFN-γ, IL-2, TNF-α level and inhibits tumor growth in vivo ^[1] .	
IC ₅₀ & Target	PD-1/PD-L1, PD-1/PD-L2	2, IFN- γ , IL-2, and TNF- $\alpha^{[1]}$	
In Vitro	Cetrelimab (0.01-30 nM; 5 d) binds to endogenous PD-1 on activated CD4 ⁺ and CD8 ⁺ T cells with EC ₅₀ s of 0.16-0.22 µg/mL and 0.17-0.22 µg/mL, respectively ^[1] . Cetrelimab (0.01-30 µg/mL; 24 h) reverse PD-1-mediated suppression of TCR signaling in Jurkat-PD-1 NFAT reporter cells with CHO-K1 expressing PD-L1 ^[1] . Cetrelimab (0.001-100 nM; 6 d) increases IFN-γ, IL-2, and TNF-α with EC ₅₀ s of 0.08 ng/mL, 0.07 ng/mL, and 0.02 ng/mL, respectively ^[1] . Cetrelimab binds to PD-1 in cynomolgus with a K _d value of 0.9 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	with MC38 tumor ^[1] . Cetrelimab (10 mg/kg; i. derived xenograft (PDX) Cetrelimab (10-100 mg/ Cetrelimab (0.1-10 mg/k possibly attributable to	.p.; single dose) has antitumor efficacy, and decreases tumor volume in PD-1 knock-in (hPD-1KI) mice .p.; once every 5 days for 30 d) results significant increases in peripheral blood CD8 ⁺ T cells in patient- lung model in mice ^[1] . (kg; i.v.; once weekly for 5 weeks) has well tolerance in cynomolgus model ^[1] . (kg; i.v.; single dose, monitored for 57 d) shows an nonlinear pharmacokinetics (PK) in cynomolgus, target-mediated drug deposition (TMDD) ^[1] . (htly confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	hPD-1KI model with mouse PD-1 ECD replaced by the human PD-1 ${ m ECD}^{[1]}$	
	Dosage:	10 mg/kg	
	Administration:	Intraperitoneal injection; single dose at day 7 after tumor implantation	
	Result:	hPD-1KI mice develop normally and have no immune abnormalities. Significantly lowered tumor volume at Day 21.	

Animal Model:	Patient-derived xenograft (PDX) LG1306 lung model in mice ^[1]
Dosage:	10 mg/kg
Administration:	Intraperitoneal injection; every 5 days for 6 cycles
Result:	Significantly reduced patient-derived tumor volume by 32%.
Animal Model:	Good Laboratory Practice (GLP) toxicity study in cynomolgus ^[1]
Dosage:	0, 10, 30, or 100 mg/kg
Administration:	Intravenous injection; once weekly for 5 weeks

REFERENCES

[1]. DeAngelis N, et al. Discovery and pharmacological characterization of cetrelimab (JNJ-63723283), an anti-programmed cell death protein-1 (PD-1) antibody, in human cancer models. Cancer Chemother Pharmacol. 2022 Apr;89(4):515-527.

Caution: Product has not been fully validated for medical applications. For research use only.

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