

Product Data Sheet

Iscalimab

Cat. No.:	HY-P99670
CAS No.:	2031153-61-2
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIV		
Description	Iscalimab (CFZ-533) is a	non-depleting IGg1 monoclonal antibody targeting CD40 (K _D : 0.3 nM). Iscalimab can be used for erthyroidism and autoimmune diseases ^{[1][2][3]} .
IC ₅₀ & Target	CD40 0.3 nM (IC ₅₀)	
In Vitro	Iscalimab (0.01-1 µg/mL, overnight) blocks rCD154-induced TNF production by primary monocyte-derived dendritic cells (moDCs), with an IC ₅₀ of 0.04 µg/mL ^[3] . Iscalimab (3 days) inhibits rCD154-induced proliferation of PBMCs from humans, rhesus and cynomolgus animals with IC ₅₀ s of 0.02, 0.03, and 0.01 µg/mL, respectively ^[3] . Iscalimab bind CD40 on B cells from humans, rhesus and cynomolgus animals with EC50 values of approximately 0.2 µg/mL ^[3] . Iscalimab (2 µg/mL, 3 h) is internalized by B cells in a CD40-dependent manner ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[3]	
	Concentration:	0-1 μg/mL approximately
	Incubation Time:	3 days
	Result:	Inhibited rCD154-induced proliferation of PBMCs with $IC_{50}s$ of 0.02, 0.03, and 0.01 $\mu g/mL$, respectively.
In Vivo	monkeys ^[3] . Iscalimab (10 mg/kg, i.v. Iscalimab (30 mg/kg, i.v.	eek, s.c, for 13 weeks) is well tolerated and does not cause any dose-limiting toxicity in rhesus) completely inhibits T cell-dependent antibody response in Rhesus monkeys ^[3] .) prolongs allograft survival in kidney transplant cynomolgus ^[4] . ntly confirmed the accuracy of these methods. They are for reference only. Kidney transplant cynomolgus ^[4]

Dosage:	30 mg/kg
Administration:	i.v.
Result:	Prolonged allograft survival. Well-tolerated with no evidence of thromboembolic events or CD40 pathway activation

REFERENCES

[1]. Kahaly GJ, et al. A Novel Anti-CD40 Monoclonal Antibody, Iscalimab, for Control of Graves Hyperthyroidism-A Proof-of-Concept Trial. J Clin Endocrinol Metab. 2020 Mar 1;105(3):dgz013.

[2]. Flandre TD, et al. Immunosuppression Profile of CFZ533 (Iscalimab), a Non-Depleting Anti-CD40 Antibody, and the Presence of Opportunistic Infections in a Rhesus Monkey Toxicology Study. Toxicol Pathol. 2022 Jul;50(5):712-724.

[3]. Ristov J, et al. Characterization of the in vitro and in vivo properties of CFZ533, a blocking and non-depleting anti-CD40 monoclonal antibody. Am J Transplant. 2018 Dec;18(12):2895-2904.

[4]. Cordoba F, et al. A novel, blocking, Fc-silent anti-CD40 monoclonal antibody prolongs nonhuman primate renal allograft survival in the absence of B cell depletion. Am J Transplant. 2015 Nov;15(11):2825-36.

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

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