

Masavibart

Cat. No.:	HY-145642
CAS No.:	2640223-84-1
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Masavibart (ZRC3308-A7) is an anti-SARS-CoV-2 monoclonal antibody (IgG1 type). Masavibart shows good binding affinity to a non-competing epitope on the RBD of the SARS-CoV-2 spike protein. Masavibart can be used in combination with ZRC3308-B10 (HY-145643) at a ratio of 1:1, which is effective for the prevention of COVID-19 and the early stage of COVID-19 before the development of severe disease ^[1] .	
IC ₅₀ & Target	SARS-CoV-2 ^[1] .	
In Vitro	<p>Masavibart (ZRC3308-A7; 0-5×10⁵ ng/mL) shows virus neutralizing ability in VeroE6/Vero CCL81 (SARS-CoV-2 infection model) cells, when in combination with ZRC3308-B10 (ratio 1:1)^[1].</p> <p>Masavibart neutralizes SARS-CoV-2 variants B.1.1.7, B.1.351, B.1.617.2, and B.1.617.2 AY.1 in vitro, when in combination with ZRC3308-B10 (ratio 1:1) ^[1].</p> <p>Masavibart binds to the RBD of SARS-CoV-2 S1 protein^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p>	
	Cell Line:	VeroE6/Vero CCL81 cells (SARS-CoV-2 infection model)
	Concentration:	0-5×10 ⁵ ng/mL (in combination with ZRC3308-B10)
	Incubation Time:	72 h
	Result:	Showed potent neutralization activity with an IC ₅₀ of 0.1527 ng/mL.
In Vivo	<p>Masavibart (ZRC3308-A7; 0.5, 2.5, 25 mg/kg; 48 h prior to the SARS-CoV-2 infection) effectively prevents SARS-CoV-2 infection in syrian hamster, when in combination with ZRC3308-B10 (ratio 1:1)^[1].</p> <p>Masavibart (0.5, 2.5, 25 mg/kg; i.p.; single) shows the serum levels remains constant without much reduction for up to 7 days, in syrian hamster ^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	Female syrian hamster (7 to 10-week-old; SARS-CoV-2 infection model) ^[1] .
	Dosage:	0.5, 2.5, 25 mg/kg

Administration:	Intraperitoneal injection; 48 h prior to the SARS-CoV-2 infection
Result:	Prevented SARS-CoV-2 infection when in combination with ZRC3308-B10.

REFERENCES

[1]. Yadav PD, et al. ZRC3308 Monoclonal Antibody Cocktail Shows Protective Efficacy in Syrian Hamsters against SARS-CoV-2 Infection. Viruses. 2021 Dec 3;13(12):2424.

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

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