

## Cilgavimab

Cat. No.:	HY-P99604
CAS No.:	2420563-99-9
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Cilgavimab (AZD-1061; COV2-2130) is a human SARS-CoV-2-neutralizing monoclonal antibody, can compose monoclonal-antibody combination AZD7442 with <a href="#">Tixagevimab</a> (HY-P99556). Cilgavimab shows protective action on mouse models of SARS-CoV-2 infection <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	SARS-CoV-2 <sup>[1][2]</sup>
<b>In Vitro</b>	Cilgavimab and Tixagevimab simultaneously bind to distinct, nonoverlapping epitopes of the SARS-CoV-2 spike-protein (S) receptor-binding domain to potentially neutralize the virus <sup>[1]</sup> . Cilgavimab exhibits potent monoclonal antibody neutralization activity, and human ACE2-blocking activity, with IC <sub>50</sub> s of 10-150 ng/mL, and shows binding ability to either trimeric S2Pecto protein or monomeric SRBD with IC <sub>50</sub> s of 0.1-10 ng/mL <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Cilgavimab (200 µg/mouse; i.p.; before SARS-CoV-2 injection) protects mice from weight loss and reduces the viral burden and levels of inflammation in the lungs <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Levin MJ, et al; PROVENT Study Group. Intramuscular AZD7442 (Tixagevimab-Cilgavimab) for Prevention of Covid-19. N Engl J Med. 2022 Jun 9;386(23):2188-2200.
- [2]. Zost SJ, et al. Potently neutralizing and protective human antibodies against SARS-CoV-2. Nature. 2020 Aug;584(7821):443-449.

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

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