

## Lomtegovimab

<b>Cat. No.:</b>	HY-P99710
<b>CAS No.:</b>	2550869-33-3
<b>Target:</b>	SARS-CoV
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lomtegovimab (BI 767551) is a human anti-SARS-COV-2 spike glycoprotein monoclonal antibody. Lomtegovimab binds and neutralizes SARS-CoV-2. Lomtegovimab shows antiviral efficacy. Lomtegovimab has the potential for the research of COVID-19 <sup>[1][2]</sup> .
<b>In Vitro</b>	Lomtegovimab targets the RBD of SARS-CoV-2 S with a $K_D$ value of 1.09 nM <sup>[2]</sup> . Lomtegovimab shows neutralizing activity with $IC_{50}$ s of 0.001, 0.001, 0.010 $\mu$ g/mL for SARS-CoV-2 S D614G, SARS-CoV-2 S B.1.1.7, SARS-CoV-2 BavPat1 (B.1), respectively <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Lomtegovimab (40 mg/kg; i.p. or i.n.; once; three days before infection) protects hACE2-transduced mice from infection with SARS-CoV-2 <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>Animal Model:</b>	BALB/c mice (Ad_ACE2-mCherry) <sup>[2]</sup>
<b>Dosage:</b>	40 mg/kg
<b>Administration:</b>	I.p. or I.n.; once; three days before infection
<b>Result:</b>	Led to a complete neutralization of infectious SARS-CoV-2 and slightly reduced amounts of viral RNA in the lungs of treated animals.

### REFERENCES

- [1]. Halwe S, et al. Intranasal Administration of a Monoclonal Neutralizing Antibody Protects Mice against SARS-CoV-2 Infection. *Viruses*. 2021 Jul 29;13(8):1498.
- [2]. Halwe S, et al. Intranasal Administration of a Monoclonal Neutralizing Antibody Protects Mice against SARS-CoV-2 Infection. *Viruses*. 2021 Jul 29;13(8):1498.

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

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