

Screening Libraries

Proteins



Product Data Sheet

Sotrovimab

Cat. No.: HY-P99340

CAS No.: 2423014-07-5

Target: SARS-CoV

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Sotrovimab (VIR 7831) is a human $IgG1\kappa$ pan-sarbecovirus monoclonal antibody (mAb), neutralizes SARS-CoV-2, SARS-CoV-1, and multiple other sarbecoviruses. Sotrovimab is developed based on S309, exhibits a long half-life and great bioavailability in the respiratory mucosa. Sotrovimab could result in immune-mediated viral clearance and prevent progression of Covid-19 early in the course of disease ^{[1][2]} .
In Vitro	Sotrovimab neutralizes both SARS-CoV-2 and SARS-CoV, but does not directly block virus receptor binding $^{[2]}$. Sotrovimab (100 µg/mL, injected for 200 s, v=30 µL/min) binds efficiently to surface-expressed SARS-CoV-2 $^{[3]}$. Sotrovimab (0.3 ng/mL-20 mg/mL; 30 min) neutralizes SARS-CoV-2 pseudo-typed virus in vitro, and also against the Alpha, Beta, Gamma, Delta and Kappa variant viruses with $^{[5]}$ of 187.2 ng/mL, 71.9 ng/mL, 73.11 ng/mL, 51.3 ng/mL, and 118.64 ng/mL, respectively $^{[3]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Sotrovimab (5 mg/kg, 10 mL; via intravenous catheter; single dose) provides protective exposures against susceptible variants in the lung of female cynomolgus monkey for up to 28 days ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- $[1]. \ Gupta \ A, et al; COMET-ICE Investigators. \ Early \ Treatment for Covid-19 \ with \ SARS-CoV-2 \ Neutralizing \ Antibody \ Sotrovimab. \ N \ Engl \ J \ Med. \ 2021 \ Nov \ 18;385(21):1941-1950.$
- [2]. Case JB, et al. Resilience of S309 and AZD7442 monoclonal antibody treatments against infection by SARS-CoV-2 Omicron lineage strains. Nat Commun. 2022 Jul 2;13(1):3824.
- [3]. Cathcart A L, et al. The dual function monoclonal antibodies VIR-7831 and VIR-7832 demonstrate potent in vitro and in vivo activity against SARS-CoV-2[J]. biorxiv, 2022: 2021.03. 09.434607.
- [4]. Aweda TA, et al. In vivo biodistribution and pharmacokinetics of sotrovimab, a SARS-CoV-2 monoclonal antibody, in healthy cynomolgus monkeys. Eur J Nucl Med Mol Imaging, 2022 Oct 28:1–12.

Page 1 of 2 www.MedChemExpress.com

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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Page 2 of 2 www.MedChemExpress.com