

## Sotrovimab

## Chemical Properties

CAS No. : 2423014-07-5

Formula:

Molecular Weight: 146.51 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Sotrovimab (VIR 7831) is a monoclonal antibody against the SARS-CoV-2 virus that causes COVID-19. It has antiviral activity, induces serum neutralization of BQ.1 and antibody-dependent cytotoxicity, and may be used to study viral infections.
Targets(IC50)	SARS-CoV
In vitro	Sotrovimab neutralizes SARS-CoV-2 and SARS-CoV but does not directly block viral receptor binding. Sotrovimab injected into the culture medium for 200 seconds at a concentration of 100 µg/mL (flow rate of 30 µL/min) was effective in binding to the surface-expressed SARS-CoV-2 S protein. Sotrovimab treated for 30 minutes at concentrations ranging from 0.3 ng/mL to 20 mg/mL exhibited in vitro neutralization of SARS-CoV-2 pseudotyped virus, and in vitro neutralization of Alpha, Beta, Gamma, and SARS-CoV. Sotrovimab exhibited in vitro neutralization of SARS-CoV-2 pseudotyped virus at concentrations ranging from 0.3 ng/mL to 20 mg/mL for 30 min, with IC50 values of 187.2 ng/mL, 71.9 ng/mL, 73.11 ng/mL, 51.3 ng/mL, and 118.64 ng/mL for the Alpha, Beta, Gamma, Delta, and Kappa variant viruses, respectively. [1][2]
In vivo	Sotrovimab was able to provide protective exposure to susceptible variants in the lungs of female crab-eating monkeys for up to 28 days after a single dose of 5 mg/kg (10 mL) was administered via intravenous catheter. [2]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0068 mL	0.0341 mL	0.0683 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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