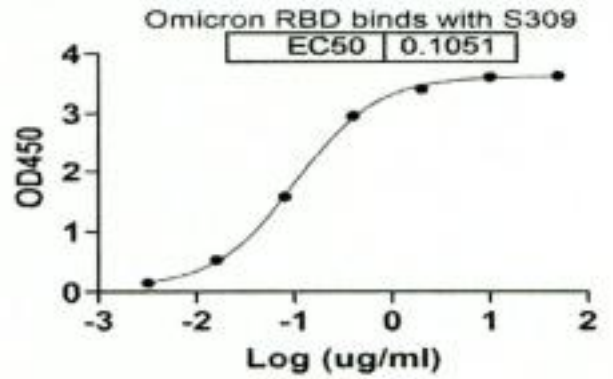
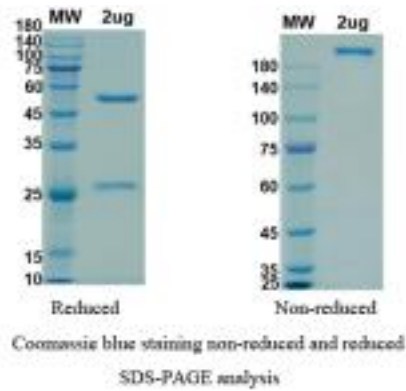


S

Research Grade Sotrovimab

Catalog No.	DVV00307A DVV00307B	Quantity:	100 µg 1.0 mg
Alternate Names:	VIR-7831, GSK4182136, S309, CAS: 2423014-07-5		
Description:	<p>VIR-7831 (GSK4182136) is a fully human anti-SARS-CoV-2 monoclonal antibody selected based on its potential to neutralize the virus in vitro, kill infected cells, provide a high barrier to resistance, and achieve high concentrations in the lungs (one of the major sites of infection). .</p> <p>Sotrovimab was derived from a parent antibody (S309), first isolated in 2003 from an individual's memory B cells who had recovered from a SARS-1 coronavirus infection. Sotrovimab differs from S309 in a particular way. It is purposefully engineered to possess two mutations in the Fc region. These are M428L and N434S, colloquially referred to as the LS mutation. These two mutations confer enhanced antibody binding to the Fc receptor, critical for neutralization, extending half-life of roughly 50 days and enhanced drug distribution to the respiratory system.</p>		
UniProt ID (target):	P0DTC2		
Origin:	Derived from antibody isolated in 2003 from an individual's memory B cells who had recovered from a SARS-1 coronavirus infection.		
Specificity:	Recognizes SARS-CoV-2 Spike glycoprotein		
Bioactivity:	N501Y RBD EC50 = 0.04638 ng/ml Omicron RBD EC50 = 0.1051 µg/ml wt RBD EC50 = 0.04784 ng/ml		
Source:	XtenCHO		
Purity:	> 95% by reduced and non-reduced SDS-PAGE		
Isotype:	Human IgG1 kappa		
Clone:	VIR-7831 / GSK4182136		
Concentration:	1.0 mg/ml, lot specific		
Formulation:	Sterile-filtered 0.01M PBS, pH 7.4		
Purification:	Protein A affinity chromatography		
Endotoxin:	< 0.01 EU/µg by LAL analysis		
Applications:	Neutralization, Functional Studies		
Storage & Stability:	Stable at 2-8°C for 1 week or for up to 1 year at -20°C to -80°C. It is recommended to prepare single-use aliquots of undiluted product and store -20°C to -80°C. Avoid repeated freeze/thaw cycles.		





NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

