

Omodenbamab

Cat. No.:	HY-P99770
CAS No.:	2241724-48-9
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Omodenbamab is an anti-SpA (Staphylococcal protein A) human monoclonal antibody with a K_D value of 0.0467 nM. Omodenbamab circumvents a key <i>S. aureus</i> evasion mechanism by targeting the cell wall moiety Protein A (SpA). Omodenbamab can be used in research of <i>S. aureus</i> bloodstream infection ^[1] .
In Vitro	Omodenbamab (514-G3) binds to <i>S. aureus</i> and leaves the Fc region exposed for FcγR1A receptor binding ^[1] . Omodenbamab (10 μg/mL; 30 min, 1.5 hr, and 2.5 hr) supports the opsonophagocytic killing of <i>S. aureus</i> by human blood cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Omodenbamab (514-G3; 2.5 mg/mice and 10 mg/mice; i.v.) protects mice against lethal challenge with MRSA in a bacteremia model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Balb/C mice with MRSA in a bacteremia model ^[1]
Dosage:	2.5 mg/mice and 10 mg/mice
Administration:	Intravenous injection
Result:	Increased mouse Balb/C mice with MRSA in a bacteremia model survival.

REFERENCES

[1]. Varshney AK, et, al. A natural human monoclonal antibody targeting Staphylococcus Protein A protects against Staphylococcus aureus bacteremia. PLoS One. 2018 Jan 24;13(1):e0190537.

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

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