

## Omodenbamab

## Chemical Properties

CAS No. : 2241724-48-9

Formula:

Molecular Weight: 145.71 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Omodenbamab (514-G3) is a humanised monoclonal antibody (Kd = 0.0467 nM) that neutralises SpA (Staphylococcus Protein A), acting by targeting SpA on the cell wall of <i>S. aureus</i> , and can be used for <i>S. aureus</i> bloodstream infections.
Targets(IC50)	Antibacterial
In vitro	<b>Methods:</b> Human blood cells were treated with 10 µg/mL Omodenbamab and incubated for 30 minutes, 1.5 hours, and 2.5 hours to evaluate its effect on the opsonophagocytic activity against <i>S. aureus</i> . <b>Results:</b> Omodenbamab significantly enhanced the opsonophagocytic activity of human blood cells against <i>S. aureus</i> . [1]
In vivo	<b>Methods:</b> In a Balb/C mouse model of MRSA bacteremia, Omodenbamab was administered via intravenous injection at doses of 2.5 mg/mouse and 10 mg/mouse. <b>Results:</b> Omodenbamab increased survival in Balb/C mice within the MRSA bacteremia model. [1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0069 mL	0.0343 mL	0.0686 mL
5 mM	0.0014 mL	0.0069 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481