

## Glembatumumab vedotin

## Chemical Properties

CAS No. : 1182215-65-1

Formula:

Molecular Weight: 146.28 kDa

Storage: Keep away from direct sunlight, Store at low temperature

-20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Glembatumumab

## Biological Description

Description	Glembatumumab vedotin (CDX-011) is an antibody-drug conjugate (ADC) that targets cancer cells expressing transmembrane glycoprotein NMB (GPNMB). Glembatumumab vedotin has potent anticancer effects and can be used in the study of triple negative breast cancer (TNBC).
Targets(IC50)	Microtubule Associated, Antibody-Drug Conjugates (ADCs)
In vitro	Glembatumumab vedotin binds to GPNMB on tumor cells, and the complex is internalized. Within the lysosomal compartment, the protein linker containing monomethyl auristatin E (MMAE) is enzymatically cleaved, releasing MMAE, which inhibits microtubules, leading to cell cycle arrest and subsequent tumor cell death[1]. Glembatumumab vedotin exhibits cytotoxic activity against osteosarcoma cells at concentrations ranging from 1 to 125 µg/mL over a 96-hour period[2].
In vivo	In human SK-MEL-2 and SK-MEL-5 melanoma xenograft models, Glembatumumab vedotin (CR011-vcMMAE) demonstrates both short-term antitumor effects (inhibiting tumor growth) and long-term effects (complete regression) when administered via intravenous injection at doses ranging from 1.25 to 80 mg/kg, every 4 days, for a duration of 16 days[3].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0068 mL	0.0342 mL	0.0684 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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