

Zilovetamab vedotin

Chemical Properties

CAS No. :

Formula:

Molecular Weight: 145.12 kDa

Store at low temperature

Storage:

Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Zilovetamab vedotin is a novel antibody-drug conjugate (ADC) constructed by conjugating the humanized monoclonal antibody zilovetamab with the anti-microtubule cytotoxic drug monomethyl vedotin. It binds to ROR1 on the surface of tumor cells, promotes rapid internalization and trafficking of the complex to lysosomes, followed by ADC cleavage and release of monomethyl vedotin, thereby inducing tumor cell apoptosis. It can be used in cancer-related research.
Targets(IC50)	Antibody-Drug Conjugates (ADCs),ROR
In vitro	Zilovetamab vedotin (0-100 µg/mL) induces cytotoxic effects in ROR1+ primary mantle cell lymphoma (MCL) cells in a dose-dependent manner. Following 24-hour treatment, zilovetamab vedotin significantly induces apoptosis and causes cell cycle arrest at the G2/M phase in both the ibrutinib-sensitive cell line (JeKo-1) and the ibrutinib-resistant cell line (JeKo BTK kd2) [1].
In vivo	Zilovetamab vedotin (administered intravenously at 2.5 mg/kg once weekly for 3 consecutive weeks) specifically targets ROR1-expressing patient-derived xenograft (PDX) models that are resistant to both ibrutinib and CAR-T therapy. Studies have confirmed that zilovetamab vedotin effectively inhibits tumor growth in these models [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0345 mL	0.0689 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

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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