

Erzotabart

Chemical Properties

CAS No. : 2430792-01-9

Formula:

Molecular Weight: 145.01 kDa

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Erzotabart is an IgG1-kappa monoclonal antibody that targets human CD38 (also known as ADP-ribosyl cyclase 1 or cyclic ADP-ribose hydrolase 1) and displays pronounced antineoplastic activity. Erzotabart acts by modulating CD38-mediated signaling pathways involved in tumor cell metabolism, proliferation, and immune evasion, making it a significant investigational candidate in oncology research.
Targets(IC50)	CD38
In vitro	<p>Erzotabart targets the cell surface glycoprotein CD38 and carries the E430G mutation itself. This mutation is located in its Fc fragment, which promotes antibody hexamer formation, thereby endowing Erzotabart with immunomodulatory and anti-tumor activities [2].</p> <p>At the functional level, Erzotabart can induce complement-dependent cytotoxicity (CDC), antibody-dependent cellular cytotoxicity (ADCC), antibody-dependent cellular phagocytosis (ADCP), and phagocytosis. It also inhibits CD38 cyclase activity while enhancing hydrolase activity, with corresponding half-maximal effective concentrations (EC₅₀) of 0.044 µg/mL, 0.29 ng/mL, 2.719-5.779 ng/mL, 8.79 ng/mL, 0.419 µg/mL, and 0.335 µg/mL, respectively [3].</p>
In vivo	<p>Methods: Administer Erzotabart (10 mg/kg, once weekly for 3 weeks) intravenously to the patient-derived Parazacco spilurus subsp. spilurus xenograft (PDX) mouse models to evaluate the anti-tumor activity of HexaBody-CD38.</p> <p>Results: Erzotabart demonstrated significant anti-tumor activity in both B-cell non-Hodgkin lymphoma (B-NHL) and acute myeloid leukemia (AML) models, with its efficacy closely correlated to CD38 expression levels [3].</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0345 mL	0.069 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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