

Sacituzumab

Chemical Properties

CAS No. :	1796566-95-4
Formula:	
Molecular Weight:	145.51 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Sacituzumab (anti-Trop-2)

Biological Description

Description	Sacituzumab (hRS7) is an antibody inhibitor and a humanized monoclonal antibody targeting trophoblast cell surface antigen 2 (TROP2), serving as a component of the antibody-drug conjugate sacituzumab govitecan, used for research and treatment of TROP2-high-expressing tumors such as triple-negative breast cancer.
Targets(IC50)	ADC Antibody,TROP2
In vitro	<p>Methods: The in vitro activity of Sacituzumab (hRS7 IgG) was verified by cell viability assays and antibody-dependent cell-mediated cytotoxicity (ADCC) experiments. Trop-2-positive cervical cancer cells (CVX8, ADX3) and negative cells (ADX2) were incubated with 2 µg/mL Sacituzumab for 72 hours, respectively.</p> <p>Results: Sacituzumab showed no direct cytotoxicity in the absence of effector cells, but could mediate significant ADCC by peripheral blood lymphocytes against Trop-2-positive cells.[1]</p> <p>Methods: Trop-2-positive cervical cancer cells (CVX8, ADX3) and negative cells (ADX2) were incubated with 2 µg/mL Sacituzumab for 72 hours.</p> <p>Results: Its IC₅₀ was 55-68 times higher than that of the ADC, with no direct cytotoxicity in the absence of effector cells; however, it could mediate significant ADCC by peripheral blood lymphocytes against Trop-2-positive cells (57.9%±5.5%).[2]</p>
In vivo	<p>Methods: MDA-MB-468 triple-negative breast cancer cells were inoculated into SCID/NCr mice. Sacituzumab (25 mg/kg, dissolved in physiological saline) was administered by intravenous injection twice weekly for 3 weeks.</p> <p>Results: Tumor burden was reduced in the treatment group, all mice survived to 60 days, showing significant difference compared with the vehicle control group (P < 0.0001). [3]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0344 mL	0.0687 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

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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