

## Sacituzumab (Powder)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

-20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Sacituzumab (Powder) 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.
In vitro	<p><b>Methods:</b> The in vitro activity of Sacituzumab 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><b>Results:</b> 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><b>Methods:</b> Trop-2-positive cervical cancer cells (CVX8, ADX3) and negative cells (ADX2) were incubated with 2 µg/mL Sacituzumab for 72 hours.</p> <p><b>Results:</b> Its IC<sub>50</sub> 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><b>Methods:</b> 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><b>Results:</b> Tumor burden was reduced in the treatment group, all mice survived to 60 days, showing significant difference compared with the vehicle control group (P &lt; 0.0001). [3]</p>

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Tel:781-999-4286

E\_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481