www.innocyto.com

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618
Email: info@innocyto.com
Phone: 1-949-418-7543

Anti-Human TROP-2 (Sacituzumab Biosimilar)

Catalog Number:	505501, 505502, 505503, 505504, 505505
Size:	1 mg, 5 mg, 20 mg, 5 mg, 20 mg
Target Name:	TROP2,TACSTD2, GA733-1, M1S1
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	Sacituzumab
Application:	Flow cytometry, animal model study
Reactivity:	Human
Format:	Liquid
Product Description:	Sacituzumab Biosimilar, Trop-2 Monoclonal Antibody
Isotype:	Human IgG1
Clonality:	Recombinant
Immunogen:	Human Trop-2
Species specificity:	Human
Purity:	>95% by reducing SDS-PAGE
Grade:	In vivo
Storage Conditions:	4ºC
Maximal Shelf Life:	12 months
Antibody Type:	Recombinant
Reactivity:	Human
GeneID:	4070

BACKGROUND INFORMATION

Sacituzumab, as a therapeutic, is an antibody–drug conjugate (ADC) composed of a humanized monoclonal antibody targeted against trophoblast cell-surface antigen 2 (Trop-2) conjugated to a potent cytotoxic payload. Structurally, the antibody component belongs to the immunoglobulin G1 kappa (IgG1κ) subclass and has a molecular weight of approximately 150 kilodaltons (kDa). It consists of two identical heavy chains and two identical light chains linked by disulfide bridges, forming the characteristic Y-shaped configuration typical of immunoglobulins. The antibody is produced through recombinant DNA technology in mammalian expression systems, ensuring proper folding, glycosylation, and immunoglobulin stability.

The Trop-2-binding regions of Sacituzumab are located in the variable domains of its heavy (VH) and light (VL) chains, which contain complementarity-determining regions (CDRs) that confer high-affinity binding to a specific extracellular epitope on the Trop-2 glycoprotein. Trop-2 is a transmembrane calcium signal transducer involved in cellular proliferation and adhesion processes.

The antibody’s recognition of Trop-2 leads to receptor-specific binding and internalization via endocytosis.

The Fc (fragment crystallizable) portion contributes to molecular stability and longevity through neonatal Fc receptor (FcRn) recycling.

This product is supplied subject to the terms and conditions at www.innocyto.com/web/terms.php and may only be used as provided in the stated terms. Products are for Research Use Only.