

Tenatumomab

Cat. No.:	HY-P99566
CAS No.:	1412891-40-7
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Tenatumomab (ST2146) is a murine monoclonal antibody against tenascin-C. And tenascin-C, the large extracellular glycoprotein, is overexpressed in cancer. Tenatumomab has been used for Pretargeted Antibody Guided Radioimmunoresearch (PAGRIT), and delivering radionuclides to tumors via PAGRIT and direct ¹³¹ Iodine labeling approach [1][2].
IC₅₀ & Target	tenascin-C ^{[1][2]}
In Vitro	Tenascin-C is a hexameric glycoprotein found in the extracellular matrix of embryos and adults. It has preferential expression in malignant solid tumors and hematologic tumors. Tenascin-C is spatially and temporally associated with tumor neovasculars and may exert anti-adhesion and immunosuppressive activities ^[2] . Tenatumomab (2-5 µg/mL; 16 h) retains immunoreactivity upon biotinylation. And Tenatumomab can be conjugated to up to 20 biotins per mAb, maintaining >50% immunoreactivity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Tenatumomab (4 µg/mouse; i.v.; single dose) shows a biodistribution associated with low and high tenascin expression in nude mice transplanted with human HT-29 colon carcinoma and/or human U-118MG glioblastoma cells, respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Giannini G, et al. Synthesis and preliminary in vitro evaluation of DOTA-Tenatumomab conjugates for theranostic applications in tenascin expressing tumors. Bioorg Med Chem. 2019 Aug 1;27(15):3248-3253.

[2]. De Santis R, et al. Low and high tenascin-expressing tumors are efficiently targeted by ST2146 monoclonal antibody. Clin Cancer Res. 2006 Apr 1;12(7 Pt 1):2191-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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