**Proteins** 



# **Product** Data Sheet

## **Tafasitamab**

Cat. No.: HY-P9981 CAS No.: 1422527-84-1 Target: Apoptosis Pathway: Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

### **BIOLOGICAL ACTIVITY**

Des		

Tafasitamab (XmAb5574) is an Fc-modified, humanized monoclonal antibody that binds to the human B-cell surface antigen CD19<sup>[1][2]</sup>.

#### In Vitro

Tafasitamab (XmAb5574) induces cytotoxicity against Mino and Jeko (MCL) cell lines? in an E/T ratio-dependent manner. Tafasitamab (XmAb5574) increases ADCP and antiproliferative? activity. Tafasitamab (XmAb5574) enhances antiproliferative apoptotic activity due to caspase-induced apoptosis  $\[1]\[2]\]$ .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay<sup>[1]</sup>

Cell Line:	NHL cell lines and primary CLL and MCL cells by $\gamma\delta$ T cells
Concentration:	
Incubation Time:	2 h
Result:	Induced killing of NHL cell lines and primary CLL and MCL cells by $\gamma\delta$ T cells.
Cell Proliferation Assay <sup>[2]</sup>	

Cell Line:	SU-DHL-6 cells
Concentration:	
Incubation Time:	72 h
Result.	Showed notent antiproliferative effects on tumor cell

## Apoptosis Analysis<sup>[2]</sup>

Cell Line:	SU-DHL-6 cells
Concentration:	0-4 ng/mL
Incubation Time:	48 h
Result:	Showed potent antiproliferative effects due to caspase-induced apoptosis

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### In Vivo

Tafasitamab (SC, once on Day 1, 2.5  $\mu$ g/kg) inhibits lymphoma growth in disseminated BL mouse xenograft tumor models<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Disseminated Raji model $^{[1]}$ .
Dosage:	2.5 μg/kg
Administration:	Tafasitamab (SC, once on Day 1, 2.5 μg/kg)
Result:	Showed antitumor activity in disseminated Raji model.
Animal Model:	Disseminated Ramos model $^{[1]}$ .
Dosage:	10 mg/kg
Administration:	Tafasitamab (IV, on Days 3, 6, 10, 13, 17, and 20 at a dose of 10 mg/kg)
Result:	Showed antitumor activity in disseminated Ramos model.

#### **REFERENCES**

[1]. Jung Hyun Her, et al. Tafasitamab mediates killing of B-cell non-Hodgkin's lymphoma in combination with  $\gamma\delta$  T cell or allogeneic NK cell therapy. Cancer Immunol Immunother. 2022 Mar 29.

[2]. Holly M Horton, et al. Potent in vitro and in vivo activity of an Fc-engineered anti-CD19 monoclonal antibody against lymphoma and leukemia. Cancer Res

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA