**Proteins** 



## **Product** Data Sheet

# **Brentuximab vedotin**

Cat. No.: HY-P99107 CAS No.: 914088-09-8

Target: Apoptosis; Antibody-Drug Conjugates (ADCs); TNF Receptor

Pathway: Apoptosis; Antibody-drug Conjugate/ADC Related

Storage: 4°C, sealed storage, away from moisture and light

 $tumor\,CD30\,regression^{[2]}.$ 

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)

## Brentuximab vedotin

### **BIOLOGICAL ACTIVITY**

Description	Brentuximab vedotin (cAC10-vcMMAE) is an antibody-drug conjugate (ADC) comprising an anti-CD30 antibody and the cytotoxic agent Monomethyl auristatin E (MMAE). Brentuximab vedotin inhibits CD30-positive cells with an IC <sub>50</sub> of 2.5 ng/mL. Brentuximab vedotin can be used for the research of relapsed and refractory Hodgkin lymphoma <sup>[1][2]</sup> .		
IC <sub>50</sub> & Target	IC50: 2.5 ng/mL (CD30) <sup>[2]</sup>		
In Vitro	?Brentuximab vedotin (CAC to apoptotic cell ?death <sup>[2]</sup> .	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	Karpas 299 cells	
	Concentration:	1 μg/mL	
	Incubation Time:	96 h	
	Result:	Showed cytotoxicity to CD30 $^{+}$ Karpas 299 cells with an IC $_{50}$ value of 2.5 ng/mL.	
	Cell Cycle Analysis <sup>[2]</sup>		
	Cell Line:	L540 cells	
	Concentration:	1 μg/mL	
	Incubation Time:	12, 24, and 48 h	
	Result:	Selectively induced growth arrest in G2/M phase to apoptotic cell death.	
In Vivo	40 mg/kg <sup>[2]</sup> .	.0-vcMMAE) (10-120 mg/kg; i.p. for 3 weeks) the maximum tolerated dose (MTD) is between 30 and .10-vcMMAE) (0.3, 1 mg/kg; flanks injection; every 4 days for a total of 4 doses 1 mg/kg) induces	

Page 1 of 2

MCE has not independe	ntly confirmed the accuracy of these methods. They are for reference only.	
Animal Model:	SCID mice $^{[2]}$	
Dosage:	10 to 120 mg/kg	
Administration:	Intravenous injection; 10 to 120 mg/kg; for 3 weeks	
Result:	Showed an maximum tolerated dose between 30 and 40 mg/kg.	
Animal Model:	SCID mice $^{[2]}$	
Dosage:	0.3 and 1 mg/kg	
Administration:	Flanks injection; 1 mg/kg every 4 days for a total of 4 doses; 0.3 mg/kg every 4 days for a total of 4 doses	
Result:	Induced complete and durable tumor regression, but 0.3 mg/kg provided lower therapy than 1 mg/kg dose.	

#### **REFERENCES**

[1]. Shea L, Mehta-Shah N. Brentuximab Vedotin in the Treatment of Peripheral T Cell Lymphoma and Cutaneous T Cell Lymphoma. Curr Hematol Malig Rep. 2020 Feb;15(1):9-19.

[2]. Francisco JA, et al. cAC10-vcMMAE, an anti-CD30-monomethyl auristatin E conjugate with potent and selective antitumor activity. Blood. 2003 Aug 15;102(4):1458-65.

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

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: tech@MedChemExpress.com}$ 

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