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# Product Data Sheet

# Inhibitors • Screening Libraries • Proteins

## Sofituzumab vedotin

Cat. No.:	HY-P99593	
CAS No.:	1418200-58-4	
Target:	Antibody-Drug Conjugates (ADCs)	
Pathway:	Antibody-drug Conjugate/ADC Related	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL AC	ΤΙVΙΤΥ			
Description	Sofituzumab vedotin (DMUC5754A) is a MMAE-containing anti-MUC16 antibody-drug conjugate (ADC) with a protease- cleavable linker. Sofituzumab vedotin can be used for the research of cancer <sup>[1]</sup> .			
In Vitro	monoclonal antibody ar linker, maleimidocaproy Sofituzumab vedotin (3 <i>F</i> proliferation in a dose-d MCE has not independer	Sofituzumab vedotin (DMUC5754A) is an antibody–drug conjugate (ADC) that contains the humanized IgG1 anti-MUC16 monoclonal antibody and a potent anti-mitotic agent, monomethyl auristatin E (MMAE), linked through a protease-labile linker, maleimidocaproyl-valine-citrulline-p-aminobenzyloxycarbonyl <sup>[2]</sup> . Sofituzumab vedotin (3A5-VC-MMAE; 0.1-10000ng/mL; 3 or 5 days) inhibits OVCAR-3 and PC3/MUC16TMlong cells proliferation in a dose-dependent manner <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[3]</sup>		
	Cell Line:	OVCAR-3 and PC3/MUC16TMlong cells		
	Concentration:	0.1-10000 ng/mL		
	Incubation Time:	3 days for OVCAR-3 and 5 days for PC3/MUC16TMlong		
	Result:	Significantly inhibited cell proliferation above 100 ng/mL.		
In Vivo	Sofituzumab vedotin (3A5-VC-MMAE; 2 and 2.8 mg/kg; IV; once weekly for 3 or 4 total doses) shows potent anti-tumor activity in MUC16-expressing human OVCAR-3 mouse xenograft models <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Female CB17 ICR severe combined immunodeficient mice, OVCAR-3/luc mouse xenografts <sup>[3]</sup>		
	Dosage:	2.8 mg/kg		
	Administration:	IV, once weekly for 4 total doses		
	Result:	Improved survival.		

Animal Model:	Female CB17 ICR severe combined immunodeficient mice, OVCAR-3 tumors grown in th mammary fat pads <sup>[3]</sup>
Dosage:	2 mg/kg
Administration:	IV, once weekly for 3 total doses
Result:	Significantly decreased the tumor volume.

### REFERENCES

[1]. Manzano A, et al. Antibody-Drug Conjugates: A Promising Novel Therapy for the Treatment of Ovarian Cancer. Cancers (Basel). 2020 Aug 9;12(8):2223.

[2]. Liu JF, et al. Phase I study of safety and pharmacokinetics of the anti-MUC16 antibody-drug conjugate DMUC5754A in patients with platinum-resistant ovarian cancer or unresectable pancreatic cancer. Ann Oncol. 2016 Nov;27(11):2124-2130.

[3]. Chen Y, et al. Armed antibodies targeting the mucin repeats of the ovarian cancer antigen, MUC16, are highly efficacious in animal tumor models. Cancer Res. 2007 May 15;67(10):4924-32.

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

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