**Proteins** 

**Product** Data Sheet



## **Gancotamab**

Cat. No.: HY-P99630 CAS No.: 1509928-00-0

Target: **EGFR** 

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK

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

## **BIOLOGICAL ACTIVITY**

BIOLOGICAL ACTI	VIIY		
Description	Gancotamab (MM-302) i	s a HER2-targeted antibody-liposomal Doxorubicin conjugate with antitumor activity. Gancotamab $\sin$ to facilitate its delivery to HER2-overexpressing tumor cells <sup>[1]</sup> .	
IC <sub>50</sub> & Target	HER2		
In Vitro	Gancotamab (MM-302; $0.5  \mu$ M; 72 hours) increases cell death in BT474-M3 and NCI-N87 cells <sup>[1]</sup> . Gancotamab (MM-302; $1  \mu$ M; 2-24 h) activates the p-p53 level and has no effect on p-Akt signal in BT474-M3 and NCI-N87 cells <sup>[1]</sup> . Gancotamab (MM-302) is a HER2-targeted liposome encapsulating approximately 20,000 molecules of Doxorubicin in its core and 45 single-chain anti-HER2 antibodies (scFv) conjugated to its surface <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	BT474-M3 and NCI-N87 cells	
	Concentration:	0.5 μΜ	
	Incubation Time:	72 hours	
	Result:	Significantly reduced in vitro viability.	
	Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	BT474-M3 and NCI-N87 cells	
	Concentration:	1 μΜ	
	Incubation Time:	2 h, 8 h, and 24 h	
	Result:	Increased the p-p53 level and had no effect on p-Akt signal.	
In Vivo	Gancotamab (MM-302; 3 of the DNA damage mar	B mg/kg; i.v.; every 7 days; for 3 doses) shows tumor growth inhibition and increases the expression $^{1}$ (ker p-p53 $^{[1]}$ ).	

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

Animal Model:	Seven-week-old female NCR/nu mice injected with NCI-N87 cells $^{[1]}$
Dosage:	3 mg/kg
Administration:	i.v.; every 7 days; for 3 doses
Result:	Showed significantly antitumor activity.

## **REFERENCES**

[1]. Christopher W Espelin, et al. Dual HER2 Targeting with Trastuzumab and Liposomal-Encapsulated Doxorubicin (MM-302) Demonstrates Synergistic Antitumor Activity in Breast and Gastric Cancer. Cancer Res. 2016 Mar 15;76(6):1517-27.

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

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