Belapectin

Cat. No.:	HY-114440		
CAS No.:	1980787-47-0		
Target:	Galectin; Apoptosis		
Pathway:	Immunology/Inflammation; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

®

MedChemExpress

Product Data Sheet

Belapectin

BIOLOGICAL ACTIV				
Description	Belapectin (GR-MD-02) is a Galectin-3 (Gal-3) inhibitor. Belapectin drives tumor-induced immunosuppression by inducing T cell Apoptosis. Belapectin promotes tumor regression and improves survival of tumor-bearing mice through a CD8+ T cell-dependent mechanism. Belapectin binds to Gal-3 with affinity K _i of 2.8 μM ^{[1][2]} .			
IC ₅₀ & Target	Galectin-3			
In Vitro	Belapectin (0.2 mg/mL, 2 mg/mL; 48 h) inhibits the proliferation of 4T1 and MCA-205 cells and induced apoptosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis ^[1]			
	Cell Line:	TRAMP-C1, 4T1 and MCA-205 cells		
	Concentration:	0.2 mg/mL, 2 mg/mL		
	Incubation Time:	48 h		
	Result:	Decreased the proliferation and resulted a minimal increase in apoptosis of 4T1 and MCA-205 cells. But showed no impact on TRAMP-C1 cell.		
In Vivo	mAb, does cause a signific also produces lasting long reattacks ^[1] .	e; i.p.; 3 times per week for 3 weeks) only exerts function under the combination with anti-OX40 cant reduction in tumor growth and a corresponding increase in survival. The combined treatment g-term memory, and 100 percent of the tumor-free mice were protected from subsequent tumor ly confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Wild-type C57BL/6 and BALB/c mice ^[1]		
	Dosage:	2.4 mg/mouse, accompanied with anti-OX40 mAb (250 μg)		
	Administration:	Intraperitoneal injection; 3 times per week for 3 weeks		
	Result:	Inhibited tumor growth. Enhanced the efficacy of checkpoint blockade (aPD-L1) immunotherapy.		

REFERENCES

[1]. Sturgill ER, et al. Galectin-3 inhibition with belapectin combined with anti-OX40 therapy reprograms the tumor microenvironment to favor anti-tumor immunity. Oncoimmunology. 2021 Mar 1;10(1):1892265.

[2]. Capasso D, et al. Galectins detection for the diagnosis of chronic diseases: An emerging biosensor approach[J]. TrAC Trends in Analytical Chemistry, 2023: 116952.

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