RedChemExpress

Product Data Sheet

Ganitumab

Cat. No.:	HY-P99294
CAS No.:	905703-97-1
Target:	IGF-1R
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

	VITV		
Description	Ganitumab (AMG 479) is a re (IGF1R). Ganitumab recogniz murine IGF1R with IGF1 and	combinant human monoclonal antibody to the human type 1 insulin-like growth factor receptor zes murine IGF1R with sub-nanomolar affinity (K _D =0.22 nM) and inhibits the interaction of IGF2. Ganitumab can be used in research of cancer ^[1] .	
In Vitro	Ganitumab (AMG 479; 0.032-500 nM; 10 min; CT26 cells) binds mIGF1R and inhibits IGF1- and IGF2-mediated activation of mIGF1R ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]		
	Cell Line:	CT26 cells	
	Concentration:	0.032-500 nM	
	Incubation Time:	10 minutes	
	Result:	Inhibited IGF1-induced autophosphorylation of mIGF1R in CT26 murine colon carcinoma cells in a dose-dependent manner.	
In Vivo	Ganitumab (AMG 479; 1 mg/dose; i.p; Naïve and tumor-bearing mice) inhibits IGF1-induced activation of mIGF1R in murine lungs ^[1] . Ganitumab (300 μg/dose; i.p.; female athymic nude mice) reduces peripheral blood neutrophils ^[1] . Ganitumab (300 μg/dose; i.p.; male athymic nude mice) causes impaired glucose tolerance in male mice and increases serum levels of mGH, mIGF1 and mIGFBP3 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Naïve and tumor-bearing mice $^{[1]}$	
	Dosage:	1 mg/dose	
	Administration:	Intraperitoneal injection	
	Result:	Inhibited the IGF1-induced activation of mIGF1R and inhibited 80% tumor growth.	

Animal Model:	Male athymic nude mice ^[1]
Dosage:	300 μg/dose
Administration:	Intraperitoneal injection, twice per week for a total of five doses
Result:	Had significantly higher serum glucose levels than hIgG1-pretreated mice. Increased serum levels of mIGF1, mIGFPB3 and mGH.
Animal Model:	Female athymic nude mice ^[1]
Dosage:	300 μg/dose
Administration:	Intraperitoneal injection, twice per week for a total of five doses

REFERENCES

[1]. Moody G, et, al. IGF1R blockade with ganitumab results in systemic effects on the GH-IGF axis in mice. J Endocrinol. 2014 Mar 17;221(1):145-55.

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

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