

Xentuzumab

Cat. No.:	HY-P99274
CAS No.:	1417158-65-6
Target:	IGF-1R
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Xentuzumab (Anti-Human IGF1 and IGF2 Recombinant Antibody; BI836845) is a recombinant a human monoclonal antibody that targets IGF ligands IGF1 and IGF2. Xentuzumab inhibits both of IGF1 and IGF2 growth-promoting signalling and suppresses AKT activation ^[1] .	
IC ₅₀ & Target	IGF1, IGF2 ^[1]	
In Vitro	<p>Xentuzumab (0.01-1 mM; 96 h) inhibits IGF type 1 receptor signaling and (0.1 μM; 48 h) AKT serine/threonine kinase (AKT) phosphorylation in VCaP, DuCaP, and MDA PCa 2b cell in a dose-dependent manner^[1].</p> <p>Xentuzumab (0.01-1 mM; 5-10 d) losses of antiproliferative activity against PTEN-null LNCaP or PC-3 cells when PTEN knockdown^[1].</p> <p>Xentuzumab (1 μM; 24-72 h) arrests cell cycle at sub-G1 phase and induces apoptosis in VCaP cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p>	
	Cell Line:	Prostate cancer VCaP cells
	Concentration:	0.1 μM
	Incubation Time:	24 h and 48 h
	Result:	Increased in cleaved caspase 3/7 and PARP. Decreased the level of phosphorylation of FoxO3a (S253)/FoxO1 (T24).
	Cell Cycle Analysis ^[1]	
	Cell Line:	Prostate cancer VCaP cells
	Concentration:	1 μM
	Incubation Time:	24 h, 48 h, and 72 h
	Result:	Increased in cleaved caspase 3/7 and induces cell apoptosis. Increased the sub-G1 cell population.
In Vivo	Xentuzumab (200 mg/kg i.p., once weekly for 10 weeks) in inhibits tumor growth in LuCaP 96CR patient-derived xenograft	

model in mice^[1].

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Animal Model:	Fox Chase CB17 severe combined immunodeficiency (SCID; CB17/lcr-Prkdc scid/lcrIcoCrl) male mice with LuCaP 96CR cell (s.c.) ^[1]
Dosage:	200 mg/kg
Administration:	Intraperitoneal injection; once weekly for 10 weeks; sacrificed 6 hours after the last dose
Result:	Resulted in significant reductions in tumor volume.

REFERENCES

[1]. Weyer-Czernilofsky U, et al. Antitumor Activity of the IGF-1/IGF-2-Neutralizing Antibody Xentuzumab (BI 836845) in Combination with Enzalutamide in Prostate Cancer Models. Mol Cancer Ther. 2020 Apr;19(4):1059-1069.

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

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