## RedChemExpress

## Product Data Sheet

## Figitumumab

Cat. No.:	HY-P99197
CAS No.:	943453-46-1
Target:	IGF-1R
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACT	Figitumumab (CP-75187	Figitumumab (CP-751871) is a potent and fully human monoclonal anti–insulin-like growth factor 1 receptor (IGF1R) antibody. Figitumumab prevents IGF1 from binding to IGF1R with an IC <sub>50</sub> of 1.8 nM <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC <sub>50</sub> : 1.8 nM (IGF1R) <sup>[1]</sup>			
In Vitro	Figitumumab (1 μg/mL; Figitumumab inhibits IG activation <sup>[2]</sup> . Figitumumab recognize MCE has not independe	<ul> <li>Figitumumab (CP-751871) (152 pM-10 μM; 3 days) inhibits cancer cell proliferation<sup>[1]</sup>.</li> <li>Figitumumab (1 μg/mL; 1 min or 24 h) induces the down-regulation of IGF-1R<sup>[2]</sup>.</li> <li>Figitumumab inhibits IGF1-induced autophosphorylation of IGF1R with an IC<sub>50</sub> of 0.42 nM, and indirectly inhibits AKT activation<sup>[2]</sup>.</li> <li>Figitumumab recognizes the IGF-1R/IR heterodimer complex<sup>[2]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Cell Proliferation Assay<sup>[1]</sup></li> </ul>		
	Cell Line:	Breast, colon, lung small cell, and non–small cell cancer lines		
	Concentration:	152 pM-10 μM		
	Incubation Time:	3 days		
	Result:	15 cell lines (NCIH441, NCIH526, SW403, CACO2, SW48, NCIH524, SKCO1, SNUC1, LS1034, COLO205, MDAMB361, NCIH508, LS513, MCF7, NCIH378) were highly sensitive to the drug at IC <sub>50</sub> values ⊠ 100 nM.		
	Western Blot Analysis <sup>[2]</sup>			
	Cell Line:	3T3/IGF-1R cell		
	Concentration:	1 μg/mL		
	Incubation Time:	1 min or 24 h		
	Result:	Blocked IGF-I- or IGF-II-induced autophosphorylation of the IGF-1R.		
In Vivo	-	′1) (31-125 μg/mouse; i.p.; once) induces the down-regulation of tumor associated IGF-1R in mice <sup>[2]</sup> . μg/mouse; i.p.; once) inhibits the growth of s.c. xenografts derived from colon (Colo-205), breast		

Animal Model:	Female athymic mice (CD-1 nu/nu) bearing NIH3T3/IGF-1R tumors <sup>[2]</sup>	
Dosage:	31 to 125 μg per mouse	
Administration:	Intraperitoneal injection, once	
Result:	Resulted in a serum $C_{max}$ between 12 and 24 hours. At 24 hours, there was a dose- dependent reduction of IGF-1R protein in tumors, with 50% reduction observed at a seru concentration of 15 µg/mL. Resulted in a down-regulation of IGF-1R from the tumor. The half-life in an athymic mouse was determined to be 4 to 6 days by longer-term studies.	
Animal Model:	Female athymic mice (CD-1 nu/nu), human Colo-205 tumor xenograft model $^{[2]}$	
Dosage:	62.5 μg or 250 μg per mouse	
Administration:	Intraperitoneal injection, once	
Result:	Inhibited the tumor growth.	

## REFERENCES

[1]. Pavlicek A, et al. Molecular predictors of sensitivity to the insulin-like growth factor 1 receptor inhibitor Figitumumab (CP-751,871). Mol Cancer Ther. 2013 Dec;12(12):2929-39.

[2]. Cohen BD, et al. Combination therapy enhances the inhibition of tumor growth with the fully human anti-type 1 insulin-like growth factor receptor monoclonal antibody CP-751,871. Clin Cancer Res. 2005 Mar 1;11(5):2063-73.

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

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