## RedChemExpress

## Product Data Sheet

## Enavatuzumab

Cat. No.:	HY-P99361
CAS No.:	1062149-33-0
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

	ITV		
Description	Enavatuzumab (PDL192; ABT-361) is a humanized IgG1 monoclonal antibody targeting the receptor of TNF-like weak inducer of apoptosis (TWEAK). TWEAK (Fn14; TNFRSF12A), the natural ligand of the TWEAK receptor (TweakR), stimulates multiple cellular responses. Enavatuzumab induces tumor growth inhibition through direct TweakR signaling and antibody dependent cell-mediated cytotoxicity (ADCC). Enavatuzumab can actively recruits and activates myeloid effectors to kill tumor cells. Enavatuzumab inhibits the growth of various human TweakR-positive cancer cell lines and xenografts in vitro and in vivo <sup>[1]</sup> <sup>[2]</sup> .		
In Vitro	Enavatuzumab (0.1-1000 ng/ Enavatuzumab (10 µg/mL; fo tumor cells in SN12C and A3' MCE has not independently o Cell Viability Assay <sup>[1]</sup> Cell Line: Concentration: Incubation Time: Result:	<ul> <li>/mL; 4 hours) induces effector cell activation and tumor cell killing in vitro<sup>[1]</sup>.</li> <li>or 24 hours) results in significantly increased migration of immune effector cells toward the 75 cells<sup>[1]</sup>.</li> <li>confirmed the accuracy of these methods. They are for reference only.</li> <li>Renal carcinoma cell line SN12C, the melanoma cell line A375, the colorectal cancer cell lines HCT116 and DLD-1</li> <li>0.1, 1, 10, 100, 1000 ng/mL</li> <li>4 hours</li> <li>Showed potent tumor cell killing on all TweakR-positive tumor cells tested.</li> </ul>	
In Vivo	Enavatuzumab (10 mg/kg; IP; three times per week; 7 doses) shows diverse antitumor activities on different xenograft tumors <sup>[1]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Animal Model:       6-week old SCID mice with SN12C or HCT116 or DLD-1 or A375 tumors <sup>[1]</sup> Dosage:       10 mg/kg         Administration:       IP; three times per week; 6 doses (DLD-1 model), 7 doses (SN12C model), 9 doses (A375 or HCT116 model)		

Result:	Some TweakR-expressing cells, such as SN12C and A375, were sensitive in vivo and in
	vitro.
	Some TweakR-expressing cell lines, such as HCT116 and DLD-1, were not sensitive to
	enavatuzumab treatment in vivo, though both cell lines were effectively killed via ADCC i
	vitro.
	Up-regulated the activation markers on splenocytes in SN12C tumor-bearing mice.

## REFERENCES

[1]. Shiming Ye, et al. Enavatuzumab, a Humanized Anti-TWEAK Receptor Monoclonal Antibody, Exerts Antitumor Activity through Attracting and Activating Innate Immune Effector Cells. J Immunol Res. 2017;2017:5737159.

[2]. Ludmilla de Plater, et al. Predictive gene signature of response to the anti-TweakR mAb PDL192 in patient-derived breast cancer xenografts. PLoS One. 2014 Nov 6;9(11):e104227.

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

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