Product Data Sheet

Volociximab

MedChemExpress

Cat. No.:	НҮ-Р99333
CAS No.:	558480-40-3
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY		
Description	Volociximab (M200) is a chimeric human/murine IgG4 antibody IIA1 targeting integrin α5β1 (EC ₅₀ =0.2 nM). Integrin α5β1 is a major fibronectin receptor involved in angiogenesis. Volociximab has antiangiogenic and antitumor activities and inhibits the proliferation of human umbilical vein vascular endothelial cells (HUVECs) ^{[1][2]} .	
IC ₅₀ & Target	α5β1 0.2 nM (EC50)	
In Vitro	Volociximab (20, 40, 80, 160, 320 nM) specifically targets integrin α5β1 (K _d =0.367 nM), but not integrin α5α5 or β1β1 ^[1] . Volociximab (0.01-100 nM; 4 d) inhibits the proliferation of human umbilical vein vascular endothelial cells (HUVEC) (IC ₅₀ =0.2-0.5 nM) and (10 µg/mL; 16 h) induces apoptosis in schizogenic but not senescent Huvecs ^[1] . Volociximab (0.067-67 nM; 6 d) inhibits 0.1 µg/mL VEGF and/or bFGF induced HUVEC angiogenesis in vitro ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Volociximab (300 μg/eye; intravitreal injection; once weekly for 4 weeks) has well tolerance and inhibits angiogenesis in laser induced choroidal neovascularization (CNV) of cynomolgus monkey model ^[1] . Volociximab (10 mg/kg; i.v.; twice weekly for 3 weeks) suppresses tumor progress in rabbits VX2 model ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Bhaskar V, et al. Volociximab, a chimeric integrin alpha5beta1 antibody, inhibits the growth of VX2 tumors in rabbits. Invest New Drugs. 2008 Feb;26(1):7-12.

[2]. Ramakrishnan V, et al. Preclinical evaluation of an anti-alpha5beta1 integrin antibody as a novel anti-angiogenic agent. J Exp Ther Oncol. 2006;5(4):273-86.

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

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