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Bevacizumab

Chemical Properties

CAS No. : 216974-75-3
 Formula:
 Molecular Weight:
 Appearance: no data available
 Storage: store at low temperature
 store at -20°C

Bevacizumab

Biological Description

Description	Bevacizumab, a humanized monoclonal antibody, specifically and with high affinity binds to all isoforms of VEGF-A.
Targets(IC50)	VEGFR
In vitro	<p>METHODS: Human lung cancer cells A549 were treated with Bevacizumab (1-25 μM) for 12-72 h. Cell proliferation was detected by CCK-8 assay.</p> <p>RESULTS: Bevacizumab treatment of A549 cells for 12 h showed mild inhibition of cell proliferation, but after 24 h showed significant induction of apoptosis in a dose-dependent manner. [1]</p> <p>METHODS: Human tumor cells AGS, Caco2 and HepG2/C3A were treated with Bevacizumab (5 ng/mL-100 μg/mL) for 48 h. Telomerase expression and activity were measured by semi-quantitative RT-PCR.</p> <p>RESULTS: Bevacizumab (5 ng/mL) increased hTERT mRNA levels in AGS by 35.2%, Caco2 by 62.0%, and HepG2/C3A by 21.8%. In contrast, Bevacizumab (100 μg/mL) increased hTERT mRNA levels in AGS by 42.3%, Caco2 by 94.1%, and HepG2/C3A by 52.5%. Thus, Bevacizumab significantly increased hTERT mRNA levels and telomerase activity in AGS, Caco2 and HepG2/C3A. [2]</p>
In vivo	<p>METHODS: To investigate antitumor activity, Bevacizumab (2-5 mg/kg) was injected intraperitoneally into nude mice bearing xenografts of human osteosarcoma cells 143B-RFP twice a week for 43 days.</p> <p>RESULTS: Bevacizumab exhibited potent anti-angiogenic activity in a nude mouse model of experimental osteosarcoma without affecting the incidence of lung metastases. [3]</p>
Kinase Assay	The binding kinetics of Bevacizumab or FD006 to VEGF is measured using Bio-Layer Inter-Ferometry on Octet RED. The assay is conducted at 30°C in PBS buffer. Sensor tips are pre-wet for 15 mins in buffer immediately prior to use, and the microplates are filled with 200 μ L per well of diluted samples (VEGF) or buffer and agitated at 1000 rpm. The anti-human IgG biosensor are pre-saturated with Bevacizumab or FD006 (10 μ g/mL) and washed in buffer for 120 seconds, and then transferred to VEGF at concentrations of 10 μ g/mL, 3 μ g/mL and 1 μ g/mL. The VEGF association and dissociation rates are measured for 5mins and 10mins, respectively. The Kinetics parameters (Kon and Koff) and affinities (KD) are calculated from a non-linear global fit using the Octet analysis software. Multiple independent measurements are performed[2].

Cell Research	Human umbilical vein endothelial cells (HUVECs) (1×10^4 cells/100 μ L/well) are seeded in 96-well plates and cultured at 37 for 14 h with Endothelial Cell Medium supplemented with 5% heat-inactivated FCS, 100 U/mL Penicillin, 100 U/mL Streptomycin, and endothelial cell growth supplement. After low-serum starvation overnight, cells are treated with different concentrations of FD006 or Bevacizumab which are pre-incubated with 10 ng/mL VEGF for 30 minutes and incubated at 37, 5% CO ₂ for 72 hours. Then, 10 μ L CCK8 is added to each well and incubated for another 4 hours. The absorbance is measured by spectrophotometer at 450 nm to determine the cell viability[2].
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Reference

Wang LL, et al. Bevacizumab induces A549 cell apoptosis through the mechanism of endoplasmic reticulum stress in vitro. Int J Clin Exp Pathol. 2015 May 1;8(5):5291-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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