

Bevacizumab (PBS)

Cat. No.:	HY-P9906A
CAS No.:	216974-75-3
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Bevacizumab, a humanized IgG1 monoclonal antibody, specifically binds to all VEGF-A isoforms with high affinity ^{[1][2]} .
In Vitro	Bevacizumab, a humanized monoclonal antibody, specifically binds to all VEGF-A isoforms with high affinity, and inhibits its interaction with VEGFR-1 and VEGFR-2 ^[1] . Experimental analysis shows that the EC ₅₀ of Bevacizumab to bind VEGF analyzed by ELISA is 0.18 µg/mL. Binding kinetics assays show similar results that Bevacizumab inhibits the VEGF-induced proliferation of HUVEC with an IC ₅₀ value of 0.047±0.0081 µg/mL ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	It is demonstrated that the subconjunctival administration of FD006 and Bevacizumab can significantly inhibit CoNV in NaOH cauterized rats compared with the control group (p < 0.01) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Extracell Vesicles. 2019 Jun 17;8(1):1629865.
- Adv Sci (Weinh). 2023 Apr 23;e2205915.
- J Exp Clin Cancer Res. 2023 Mar 30;42(1):77.
- EBioMedicine. 2019 Sep.
- Int J Biol Sci. 2022; 18(3): 942-955.

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REFERENCES

- [1]. Tan H, et al. 99mTc-labeled bevacizumab for detecting atherosclerotic plaque linked to plaque neovascularization and monitoring antiangiogenic effects of treatment in ApoE^{-/-} mice. Sci Rep. 2017 Jun 14;7(1):3504.
- [2]. Di Mauro C, et al. Hedgehog signalling pathway orchestrates angiogenesis in triple-negative breast cancers. Br J Cancer. 2017 May 23;116(11):1425-1435.

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

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