Brolucizumab

Cat. No.:	HY-P9973
CAS No.:	1531589-13-5
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Brolucizumab (DLX1008) is a single-chain anti-VEGF-A antibody fragment with low picomolar affinity (K_D=1.05 pM). Brolucizumab can be used for the research of cancer[1][2].
In Vitro	Brolucizumab (2683 nM) inhibits VEGF-A112-induced phosphorylation of VEGFR1 in U87MG human glioma cells and of VEGFR2 in ZHE-483-2 GMEC[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Brolucizumab (15 mg/kg; i.p. 5 days per week for 21 or 41 days) slows the growth of mSLK-KSHV xenograft tumors[2]. Brolucizumab (5-50 mg/kg; i.p. once or twice daily for 28 days) delays in vivo tumor growth in U87MG glioma models[1]. Brolucizumab (10 mg/kg; i.v.) shows a half-life of 5.4-7.8 minutes for the rapid decline phase and 1.4-1.9 hours for the slow decline phase in mice[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	NSG mice were subcutaneously injected with mSLK-KSHV cell suspension[2]
Dosage:	15 mg/kg
Administration:	I.p. 5 days per week for 21 or 41 days
Result:	Significantly lowed tumor growth there was no difference in survival between experimental and combined control groups.

REFERENCES

[1]. Szabó E, et, al. Antitumor Activity of DLX1008, an Anti-VEGFA Antibody Fragment with Low Picomolar Affinity, in Human Glioma Models. J Pharmacol Exp Ther. 2018 May;365(2):422-429.

[2]. Eason AB, et, al. DLX1008 (brolucizumab), a single-chain anti-VEGF-A antibody fragment with low picomolar affinity, leads to tumor involution in an in vivo model of Kaposi Sarcoma. PLoS One. 2020 May 14;15(5):e0233116.

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

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