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Sozinibercept

Cat. No.:	HY-145633
CAS No.:	2568358-31-4
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Sozinibercept (OPT 302; VGX-300) is a soluble form of VEGFR-3, potently inhibits the activity of VEGF-C/D, which are the proangiogenic factors, inhibiting angiogenesis and vascular leakage. Sozinibercept also inhibits diabetic retinal edema in rats ^{[1][2][3]} .
IC₅₀ & Target	VEGF-C/D ^{[1][2][3]}
In Vivo	<p>Sozinibercept inhibits CNV lesion formation and vascular leakage in the mouse laser-induced model of choroidal neovascularization (CNV). Moreover, Sozinibercept exhibits comparable efficacy to Aflibercept (HY-108801; Eylea[®]) in CNV mouse model^{[1][2]}.</p> <p>Sozinibercept (intravitreal injection; once every 4 wk for 4 months) shows selective inhibition of VEGF-C/D, and inhibits diabetic retinal edema induced by streptozotocin (STZ) in the rat model, and equivalent to inhibition of VEGF-A inhibitor (Aflibercept)^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Lashkari K, et al. VGX-300, a 'Trap' for VEGF-C and VEGF-D, Inhibits Choroidal Neovascularization and Vascular Leakage in a Mouse Model of Wet AMD[J]. Investigative Ophthalmology & Visual Science, 2015, 56(7): 4802-4802.
- [2]. Lashkari K, et al. VEGF-C and VEGF-D Blockade by VGX-300 Inhibits Choroidal Neovascularization and Leakage in a Mouse Model of wet AMD[J]. Investigative Ophthalmology & Visual Science, 2014, 55(13): 1823-1823.
- [3]. Turunen T, et al. VEGF-C and VEGF-D Inhibition by VGX-300 Effectively Reduces Leukocyte Adhesion and Vascular Leakage in the STZ-Rat Model of Diabetic Retinal Edema[J]. Investigative Ophthalmology & Visual Science, 2019, 60(9): 3667-3667.

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

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