
Product Name	: AXT107	LRRFSTAPFAFI-DINDVINP
Cat. No.	: PC-72429	
CAS No.	: 2417491-82-6	
Molecular Formula	: C ₁₁₁ H ₁₆₇ N ₂₉ O ₂₈	
Molecular Weight	: 2355.69	
Target	: Integrin	
Solubility	: 10 mM in H ₂ O	

Biological Activity

AXT107 (Gersizangitide) is a mimetic peptide derived from collagen IV, binds integrins $\alpha\beta3$ and $\alpha5\beta1$ ($K_d=1.29$ and 2.21 nM), disrupts VEGFR2- $\beta3$ complex formation.

AXT107 inhibits VEGF-, HGF-, and PDGF-BB-stimulated phosphorylation of VEGFR2, c-Met, and PDGFRb receptors.

AXT107 also reduced total VEGFR2 levels by increasing internalization, ubiquitination, and degradation.

AXT107 suppressed subretinal neovascularization (NV) in two mouse models predictive of effects in neovascular age-related macular degeneration (NVAMD) and inhibited retinal NV in a model predictive of effects in ischemic retinopathies.

A combination of AXT107 and the current treatment aflibercept suppressed subretinal NV better than either agent alone.

AXT107 significantly reduced VEGF-induced vascular leakage by 86% at 1 month and 70% at 2 months in rabbit eyes, demonstrating the longer effectiveness than Aflibercept.

References

Raquel Lima E Silva, et al. *Sci Transl Med*. 2017 Jan 18;9(373):eaai8030.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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