

Avacincaptad pegol

Cat. No.:	HY-148457
CAS No.:	1613641-69-2
Sequence:	Poly(oxy-1,2-ethanediyl), α -hydro- ω -methoxy-, 5'-ether with RNA ((2'-deoxy-2'-fluoro) C-Gm-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)C-G-(2'-deoxy-2'-fluoro)C-Gm-Gm-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)C-A m-Gm-Gm-(2'-deoxy-2'-fluoro)C-G-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)U-Gm-A m-Gm-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)U-Gm-Am-Gm-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)U-(2'-deoxy-2'-fluoro)U-A-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)C-(2'-deoxy-2'-fluoro)U-Gm-(2'-deoxy-2'-fluoro)C-Gm-(3' \rightarrow 3')-dT) 5'-[6-[[[(2,3-dihydroxypropoxy)carbonyl]amino]hexyl hydrogen phosphate] (2:1)
Target:	Complement System
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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BIOLOGICAL ACTIVITY

Description

Avacincaptad pegol, which is a pegylated aptamer, has garnered significant attention as a C5 complement inhibitor that may reduce inflammation-related retinal pigment epithelium (RPE) damage. Avacincaptad pegol can be used for the research of stargardt macular dystrophy (STGD1) and geographic atrophy (GA)^{[1][2]}.

REFERENCES

[1]. Rehan M Hussain, et al. Stargardt macular dystrophy and evolving therapies. *Expert Opin Biol Ther*. 2018 Oct;18(10):1049-1059.

[2]. Glenn J Jaffe, et al. C5 Inhibitor Avacincaptad Pegol for Geographic Atrophy Due to Age-Related Macular Degeneration: A Randomized Pivotal Phase 2/3 Trial. *Ophthalmology*. 2021 Apr;128(4):576-586.

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

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