Egaptivon pegol

Cat. No.: HY-147079

CAS No.: 934868-74-3

Molecular Weight: 53926.29

Sequence: Poly(oxy-1,2-ethanediyl), α-hydro-ω-methoxy-, 5′-ester with RNA (Gm-Cm-Gm-Um-dG-dC-dA-Gm-Um-Gm-Cm-Cm-Um-Um-Cm-Gm-Gm-Cm-dC-Gm-sp-dT-Gm-dC-dG-dG-dT-Gm-Cm-dC-Um-dC-dC-Gm-Um-dC-Am-Cm-Gm-Cm-(3′→3′)-dT) 5′-[6-(carboxyamino) hexyl hydrogen phosphate]

Egaptivon pegol

Target: Integrin

Pathway: Cytoskeleton

Storage: -20°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (1.85 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.0185 mL	0.0927 mL	0.1854 mL
5 mM	---	---	---
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Egaptivon pegol (ARC1779) is an aptamer, which blocks binding of the von Willebrand Factor (VWF) to platelet GPIb receptors. Egaptivon pegol has anti-thrombotic efficacy.

REFERENCES

[1]. Avdonin PP, Trufanov SK, Rybakova EY, Tsitrina AA, Goncharov NV, Avdonin PV. The Use of Fluorescently Labeled ARC1779 Aptamer for Assessing the Effect of H2O2 on von Willebrand Factor Exocytosis. Biochemistry (Mosc). 2021;86(2):123-131.

[2]. Jilma-Stohlawetz P, Gorczyca ME, Jilma B, Siller-Matula J, Gilbert JC, Knöbl P. Inhibition of von Willebrand factor by ARC1779 in patients with acute thrombotic thrombocytopenic purpura. Thromb Haemost. 2011;105(3):545-552.

[3]. Spiel AO, Mayr FB, Ladani N, et al. The aptamer ARC1779 is a potent and specific inhibitor of von Willebrand Factor mediated ex vivo platelet function in acute myocardial infarction. Platelets. 2009;20(5):334-340.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA