

## Fazirsiran

<b>Cat. No.:</b>	HY-132604
<b>CAS No.:</b>	2175009-08-0
<b>Molecular Weight:</b>	15587.6
<b>Sequence:</b>	RNA, ([1'-de(6-amino-9H-purin-9-yl)]dA-(5'→5')-sp-Am-Gm-Cm-Gm-Um-Um- Um-Am-(2'-deoxy-2'-fluoro)G-(2'-deoxy-2'-fluoro)G-(2'-deoxy-2'-fluoro)C-Am-Um-Gm-Um-Um-Um-Am-Am-Cm-Am-(3'→3')-sp-[1'-de(6-amino-9H-purin-9-yl)]dA),3'-[O-[cis-4-[(3S,8S)-17-[[2-(acetylamino)-2-deoxy-β-D-galactopyranosyl]oxy]-3,8-bis[[[2-[2-[[2-(acetylamino)-2-deoxy-β-D-galactopyranosyl]oxy]ethoxy]ethyl]amino]carbonyl]-1,6,11-trioxo-1,5-oxa-2,7,12-triazaheptadec-1-yl]cyclohexyl] hydrogen phosphorothioate], complex with RNA (Um-sp-(2'-deoxy-2'-fluoro)G-sp-Um-(2'-deoxy-2'-fluoro)U-Am-(2'-deoxy-2'-fluoro)A-Am-Cm-Am-Um-Gm-(2'-deoxy-2'-fluoro)C-Cm-(2'-deoxy-2'-fluoro)U-Am-(2'-deoxy-2'-fluoro)A-Am-(2'-deoxy-2'-fluoro)C-Gm-(2'-deoxy-2'-fluoro)C-sp-Um) (1:1)
<b>Target:</b>	Small Interfering RNA (siRNA)
<b>Pathway:</b>	Epigenetics
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

# ARO-AAT

### BIOLOGICAL ACTIVITY

<b>Description</b>	Fazirsiran (ARO-AAT) is a second-generation RNAi agent. Fazirsiran consists of a cholesterol-conjugated RNAi trigger (chol-RNAi) to selectively degrade Alpha1-antitrypsin (AAT) mRNA by RNAi and a melittin-derived peptide conjugated to N-acetylgalactosamine (NAG) formulated as the excipient EX1 to promote endosomal escape of the chol-RNAi in hepatocytes [1]. Fazirsiran can be used in the study of Alpha-1 Antitrypsin Deficiency (AATD) liver disease.
<b>In Vivo</b>	Fazirsiran (ARO-AAT; sc; 4 mg/kg; on 1, 15, 29, 43 days during 57 days) deeply reduces Z-AAT mRNA and protein in five-week-old male PiZ mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Christine I Wooddell, et al. Development of an RNAi therapeutic for alpha-1-antitrypsin liver disease. JCI Insight. 2020 Jun 18;5(12):e135348.

**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