

## ARC19499

<b>Cat. No.:</b>	HY-153480
<b>CAS No.:</b>	1350667-54-7
<b>Molecular Weight:</b>	11078.95
<b>Target:</b>	Factor Xa
<b>Pathway:</b>	Metabolic Enzyme/Protease
<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)

# ARC19499

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL (9.03 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	0.0903 mL	0.4513 mL	0.9026 mL
5 mM	0.0181 mL	0.0903 mL	0.1805 mL		
10 mM	---	---	---		

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

### BIOLOGICAL ACTIVITY

#### Description

ARC19499 is an aptamer that inhibits tissue factor pathway inhibitor (TFPI), thereby enabling clot initiation and propagation via the extrinsic pathway. The core aptamer binds tightly and specifically to TFPI. ARC19499 blocks TFPI inhibition of both factor Xa and the TF/factor VIIa complex. ARC19499 corrects thrombin generation in hemophilia A and B plasma and restores clotting in FVIII-neutralized whole blood.

### REFERENCES

[1]. Waters EK, Genga RM, Schwartz MC, et al. Aptamer ARC19499 mediates a procoagulant hemostatic effect by inhibiting tissue factor pathway inhibitor. *Blood*. 2011;117(20):5514-5522.

[2]. Gissel M, Orfeo T, Foley JH, Butenas S. Effect of BAX499 aptamer on tissue factor pathway inhibitor function and thrombin generation in models of hemophilia. *Thromb Res*. 2012;130(6):948-955.

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

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