# Pociredir hydrochloride

**Cat. No.:** HY-139400A

**CAS No.:** 2490676-19-0

**Molecular Formula:** $C_{22}H_{19}ClFN_5O_2$

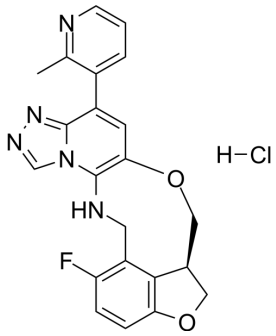
**Molecular Weight:** 439.87

**Target:** Histone Methyltransferase

**Pathway:** Epigenetics

**Storage:** 4°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**

DMSO : 125 mg/mL (284.17 mM; ultrasonic and warming and heat to 60°C)

$H_2O$ : 2 mg/mL (4.55 mM; ultrasonic and warming and heat to 60°C)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.2734 mL | 11.3670 mL | 22.7340 mL |
| 5 mM | 0.4547 mL | 2.2734 mL | 4.5468 mL |
| 10 mM | 0.2273 mL | 1.1367 mL | 2.2734 mL |

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Pociredir (FTX-6058) hydrochloride is a potent and orally active inhibitor of Embryonic Ectoderm Development (EED). Pociredir hydrochloride can induce HbF protein expression in cell and murine models. Pociredir hydrochloride can be used for the research of select hemoglobinopathies, including sickle cell disease and β-thalassemia[1][2].

**In Vitro**

Pociredir hydrochloride inhibits PRC2 via binding to EED, which induces robust HbF protein expression in both cell and murine models[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Fulcrum Therapeutics Presents Published Structure of Investigational Small Molecule FTX-6058 at the American Chemical Society (ACS) Spring 2021 Virtual Conference.

[2]. Boerner LK. Virtual meeting delivers first time drug structures. April 12, 2021.



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