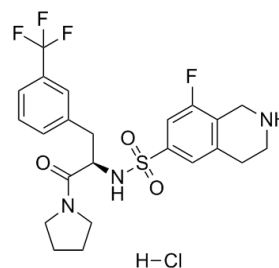


Product Name : PFI-2 hydrochloride
Synonyms : R)-PFI-2 hydrochloride
Cat No. : M12412
CAS Number : 1627607-87-7
Molecular Formula : C₂₃H₂₆ClF₄N₃O₃S
Formula Weight : 535.98



Chemical Name : 6-Isoquinolinesulfonamide, 8-fluoro-1,2,3,4-tetrahydro-N-[(1R)-2-oxo-2-(1-pyrrolidinyl)-1-[[3-(trifluoromethyl)phenyl]methyl]ethyl]-, hydrochloride (1:1)

Description : A first-in-class, potent and selective inhibitor of SETD7 methyltransferase with K_i app/ IC_{50} of 0.33/2 nM; shows high selectivity (>1,000-fold) for SETD7 over 18 other methyltransferases and DNMT1, 500-fold more active than enantiomer (S)-PFI-2; increases YAP nuclear localization, regulates YAP target genes, and phenocopies the effects of Setd7 deficiency on Hippo pathway signaling in murine embryonic fibroblasts.

Pathway : Chromatin/Epigenetic

Target : HMTase

Receptor : SETD7

Solubility : DMSO: ≥ 32 mg/mL

SMILES : C1CCN(C1)C(=O)C(CC2=CC(=CC=C2)C(F)(F)F)NS(=O)(=O)C3=CC4=C(CNCCC4)C(=C3)F.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Barsyte-Lovejoy D, et al. Proc Natl Acad Sci U S A. 2014 Sep 2;111(35):12853-8. | 2. Niu Y, et al. Sci Rep. 2017 Apr 18;7:46547.