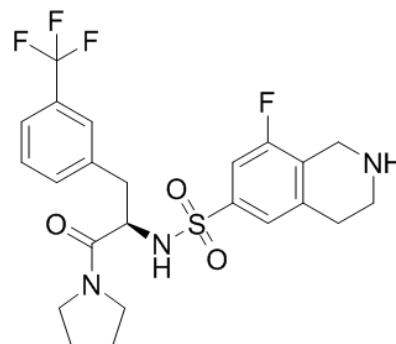


Product Name : PFI-2
Cat. No. : PC-45488
CAS No. : 1627676-59-8
Molecular Formula : C₂₃H₂₅F₄N₃O₃S
Molecular Weight : 499.5215
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

PFI-2 ((R)-PFI-2) is a first-in-class, potent and selective inhibitor of **SETD7** methyltransferase with K_i app/IC₅₀ of 0.33/2 nM, respectively.

PFI-2 shows high selectivity (>1,000-fold) for SETD7 over 18 other methyltransferases and DNMT1, 500-fold more active than enantiomer (S)-PFI-2.

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.

References

Barsyte-Lovejoy D, et al. *Proc Natl Acad Sci U S A*. 2014 Sep 2;111(35):12853-8.

Niu Y, et al. *Sci Rep*. 2017 Apr 18;7:46547.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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