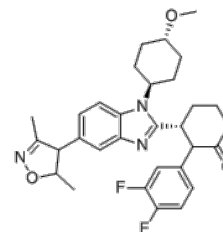


Product Name : CCS1477
Cat. No. : PC-38126
CAS No. : 2222941-37-7
Molecular Formula : C₃₁H₃₅F₂N₃O₃
Molecular Weight : 535.636
Target : Histone Acetyltransferase (HAT)
Solubility : 10 mM in DMSO



Biological Activity

CCS1477 (Inobrodib) is an orally bioavailable, potent, and selective inhibitor of the **p300/CBP bromodomain**, binds to p300 and CBP with K_ds of 1.3 and 1.7 nM respectively.

CCS1477 (Inobrodib) displays > 170/130-fold selectivity compared with BRD4, CCS1477 binding to cellular histones in an in-cell BRET assay, with an IC₅₀ of 19 nM for p300 and 1060 nM for BRD4.

CCS1477 (Inobrodib) has only minimal binding to BRD2, 3, 4, 9 and WDR9 (14-33% of control at 1 μM) in a bromoscan assay of 32 bromodomains.

CCS1477 inhibits cell proliferation in prostate cancer cell lines and decreases AR- and C-MYC-regulated gene expression.

CCS1477 has antitumor activity, regulating AR and C-MYC signaling in AR-SV-driven models.

CCS1477 modulates KLK3 blood levels and regulates CRPC biopsy biomarker expression.

References

Jonathan Welti, et al. **Cancer Discov.** 2021 May;11(5):1118-1137.

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

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