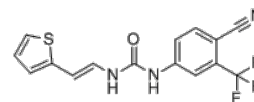


Product Name : SC428
Cat. No. : PC-20758
CAS No. : 1898232-70-6
Molecular Formula : C₁₅H₁₀F₃N₃OS
Molecular Weight : 337.32
Target : Androgen Receptor (AR)
Solubility : 10 mM in DMSO



CAS: 1898232-70-6

Biological Activity

SC428 (SC-428) is a small molecule **androgen receptor** (AR) signaling inhibitor, directly binds to the AR N-terminal domain (NTD) and exhibits pan-AR inhibitory effect.

SC428 potentially decreased the transactivation of AR-V7, ARv567es, as well as full-length AR (AR-FL) and its LBD mutants. SC428 substantially suppressed androgen-stimulated AR-FL nuclear translocation, chromatin binding, and AR-regulated gene transcription.

SC428 significantly attenuated AR-V7-mediated AR signaling that does not rely on androgen, hampered AR-V7 nuclear localization, and disrupted AR-V7 homodimerization.

SC428 inhibited in vitro proliferation and in vivo tumor growth of cells that expressed a high level of AR-V7 and were unresponsive to enzalutamide (ENZ) treatment.

References

Yi Q, et al. *Mol Cancer Ther.* 2023 May 4;22(5):570-582.

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

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