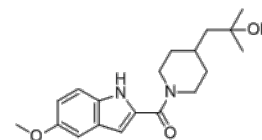


Product Name : ASP9521
Cat. No. : PC-60998
CAS No. : 1126084-37-4
Molecular Formula : C₁₉H₂₆N₂O₃
Molecular Weight : 330.428
Target : Aldose Reductase
Solubility : 10 mM in DMSO



Biological Activity

ASP9521 (ASP-9521) is a potent, selective, orally bioavailable inhibitor of Aldo-keto reductase 1C3 (17βHSD5, **AKR1C3**) with IC₅₀ of 11 nM and 49 nM for recombinant human or cynomolgus monkey AKR1C3, respectively. ASP9521 displays >100-fold selectivity for AKR1C3 over the isoform AKR1C2, and does not inhibit AKR1C1 and AKR1C6. ASP9521 inhibits both androstenedione (10 nM)-induced PSA production and cell proliferation in LNCaPA^{AKR1C3} cells with IC₅₀ of 11 nM and 6.6 nM, respectively. ASP9521 inhibits AD-induced intratumoural T production in CWR22R xenografts.

References

- Loriot Y, et al. *Invest New Drugs*. 2014 Oct;32(5):995-1004.
Kikuchi A, et al. *Invest New Drugs*. 2014 Oct;32(5):860-70.

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

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