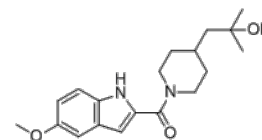


**Product Name** : ASP9521  
**Cat. No.** : PC-60998  
**CAS No.** : 1126084-37-4  
**Molecular Formula** : C<sub>19</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 330.428  
**Target** : Aldose Reductase  
**Solubility** : 10 mM in DMSO



### Biological Activity

ASP9521 (ASP-9521) is a potent, selective, orally bioavailable inhibitor of Aldo-keto reductase 1C3 (17βHSD5, **AKR1C3**) with IC<sub>50</sub> 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<sup>AKR1C3</sup> cells with IC<sub>50</sub> 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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