



Abiraterone (acetate)

Catalog No: tcsc0544

| 且 | Available Sizes |
|-----------------------|-------------------------------------|
| Size: | 10mg |
| Size: | 50mg |
| Size: | 100mg |
| Size: | 200mg |
| Size: | 500mg |
| Size: | 1g |
| Size: | 2g |
| Size: | 5g |
| | Specifications |
| CAS N 15422 | No: 19-18-2 |
| Form | |
| Pathy Metab | vay: olic Enzyme/Protease |
| Targe Cytocl | et: hrome P450 |
| Purity | y / Grade: |
| Solub | .*11*2 |





DMSO: 13.3 mg/mL (33.97 mM; Need ultrasonic and warming)

Alternative Names:

CB7630

Observed Molecular Weight:

391.55

Product Description

Abiraterone acetate is an oral, potent, selective, and irreversible inhibitor of CYP17.

IC50 & Target: CYP17^[1]

In Vitro: Abiraterone (Abi) acetate is an ester prodrug of the anticancer agent Abiraterone, which shows IC₅₀ values of 15 nM and 2.5 nM for the 17,20-lyase and 17 α -hydroxylase (CYP17 is a bifunctional enzyme with both 17 α -hydroxylase and 17,20-lyase activity). Abiraterone inhibits human 17,20-lyase and 17 α -hydroxylase with IC₅₀ of 27 and 30 nM respectively^[1].

Significant inhibition of proliferation of the AR-positive prostate cancer cell lines LNCaP and VCaP with doses of Abiraterone $\geq 5 \mu M$ is confirmed^[2]. Abiraterone inhibits recombinant human 3 β HSD1 and 3 β HSD2 activity with competitive K_i values of 2.1 and 8.8 μ M. 10 μ M Abiraterone is sufficient to completely block synthesis of 5 α -dione and DHT in both cell lines. Treatment with Abiraterone significantly inhibited CRPC progression in the robustly growing subset, effectively putting a ceiling on tumor growth over 4 weeks of treatment (P[3].

In Vivo: Abiraterone (Abi) acetate prolongs survival in castration-resistant prostate cancer (CRPC). [3 H]-dehydroepiandrosterone (DHEA) depletion and Δ^4 -androstenedione (AD) accumulation are inhibited by Abiraterone in LNCaP, with an IC $_{50}$ [3].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!