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Produktinformation



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- Trockeneiszuschlag
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- Expressversand

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PRODUCT INFORMATION



Abiraterone

Item No. 9002768

CAS Registry No.: 154229-19-3
Formal Name: (3 β)-17-(3-pyridinyl)-androsta-5,16-dien-3-ol

Synonym: CB-7598
MF: C₂₄H₃₁NO

FW: 349.5

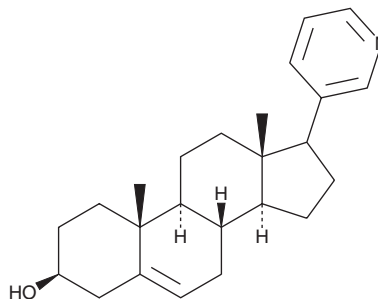
Purity: \geq 98%

UV/Vis.: λ_{max} : 254 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Abiraterone is supplied as a crystalline solid. A stock solution may be made by dissolving the abiraterone in the solvent of choice. Abiraterone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of abiraterone in ethanol and DMF is approximately 15 mg/ml and approximately 1 mg/ml in DMSO.

Abiraterone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, abiraterone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Abiraterone has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Abiraterone is the active metabolite of abiraterone acetate (Item No. 15148). Abiraterone blocks cytochrome P450 17A1 (also known as steroid 17 α -hydroxylase/17,20 lyase) by potently inhibiting both the 17 α -hydroxylase and the 17,20 lyase activities (IC₅₀ = 18 and 17 nM, respectively).^{1,2} In mice as well as men, it essentially eliminates plasma testosterone while producing a 3- to 4-fold increase in plasma luteinizing hormone.^{1,3} In clinical trials, abiraterone improves radiographic progression-free survival and significantly delays decline in human metastatic castration-resistant prostate cancer.⁴

References

1. Barrie, S.E., Potter, G.A., Goddard, P.M., *et al.* Pharmacology of novel steroidal inhibitors of cytochrome P45017 α (17 α -hydroxylase/C17-20 lyase). *J. Steroid Biochem. Mol. Biol.* **50(5-6)**, 267-273 (1994).
2. Potter, G.A., Barrie, S.E., Jarman, M., *et al.* Novel steroidal inhibitors of human cytochrome P45017 α (17 α -hydroxylase-C17,20-lyase): Potential agents for the treatment of prostatic cancer. *J. Med. Chem.* **38(13)**, 2463-2471 (1995).
3. O'Donnell, A., Judson, I., Dowsett, M., *et al.* Hormonal impact of the 17 α -hydroxylase/C17,20-lyase inhibitor abiraterone acetate (CB7630) in patients with prostate cancer. *Br. J. Cancer* **90(12)**, 2317-2325 (2004).
4. Ryan, C.J., Smith, M.R., de Bono, J.S., *et al.* Abiraterone in metastatic prostate cancer without previous chemotherapy. *N. Engl. J. Med.* **368(2)**, 138-148 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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