

Product Information

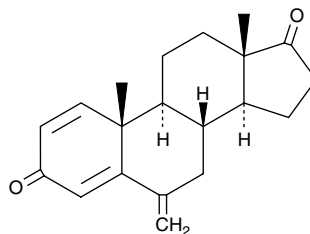


Exemestane

Item No. 15008

Sold for research purposes under agreement from Pfizer Inc.

CAS Registry No.: 107868-30-4
Formal Name: 6-methylene-androsta-1,4-diene-3,17-dione
Synonyms: Aromasin™, FCE 24304
MF: C₂₀H₂₄O₂
FW: 296.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 246 nm



Laboratory Procedures

For long term storage, we suggest that exemestane be stored as supplied at -20°C. It should be stable for at least two years.

Exemestane is supplied as a crystalline solid. A stock solution may be made by dissolving the exemestane in the solvent of choice. Exemestane is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of exemestane in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Exemestane is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, exemestane should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Exemestane has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Exemestane is a third generation, irreversible steroidal aromatase inhibitor ($K_i = 10.2$ nM; $K_{inact} = 26$ nM) that induces aromatase degradation leading to a decrease in estrogen levels in plasma.^{1,2} As an androgen analog, exemestane exhibits androgenic effects and has been shown to decrease total and HDL cholesterol, apo A1, and total triglyceride levels.³ Marketed under the trade name Aromasin™, exemestane has been used to treat estrogen receptor-positive breast cancers in post-menopausal women.¹

References

1. Wang, X. and Chen, S. Aromatase destabilizer: Novel action of exemestane, a food and drug administration-approved aromatase inhibitor. *Cancer Res.* **66**(21), 10281-10286 (2006).
2. Santen, R.J. and Harvey, H.A. Use of aromatase inhibitors in breast carcinoma. *Endocr.-Relat. Cancer* **6**, 75-92 (1999).
3. Buzdar, A.U., Robertson, J.F.R., Eiermann, W., *et al.* An overview of the pharmacology and pharmacokinetics of the newer generation aromatase inhibitors anastrozole, letrozole, and exemestane. *Cancer* **95**(9), 2006-2016 (2002).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15008

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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