**PRODUCT INFORMATION**

5α-Androst-16-en-3-one

*Item No. 18233*

CAS Registry No.: 18339-16-7

**Formal Name:** (5α)-androsten-16-en-3-one  

**Synonym:** Androstenone  

**MF:** C₁₉H₂₈O  

**FW:** 272.4  

**Purity:** ≥98%  

**Stability:** ≥2 years at -20°C  

**Supplied as:** A crystalline solid

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**Laboratory Procedures**

For long term storage, we suggest that 5α-androst-16-en-3-one be stored as supplied at -20°C. It should be stable for at least two years.

5α-Androst-16-en-3-one is supplied as a crystalline solid. A stock solution may be made by dissolving the 5α-androst-16-en-3-one in the solvent of choice. 5α-Androst-16-en-3-one is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 5α-androst-16-en-3-one in these solvents is approximately 10, 15, and 25 mg/ml, respectively.

5α-androst-16-en-3-one is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5α-androst-16-en-3-one should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 5α-androst-16-en-3-one 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.

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**Description**

5α-Androst-16-en-3-one is a mammalian pheromone released as a volatile chemical cue in boar saliva to facilitate social and sexual interactions.¹ It has been used to prime sexual behavior of sows in estrus for mating or artificial insemination. 5α-Androst-16-en-3-one is also found in human sweat and urine and has been used to study receptor-mediated odorant detection and the genetic basis for anosmias.²

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**References**


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**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.

**WARRANTY AND LIMITATION OF REMEDY**

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.