**PRODUCT INFORMATION**

*5α-Androst-16-en-3-one*

**Item No. 18233**

- **CAS Registry No.:** 18339-16-7
- **Formal Name:** (5α)-androst-16-en-3-one
- **Synonym:** Androstenone
- **MF:** C_{19}H_{28}O
- **FW:** 272.4
- **Purity:** ≥98%
- **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

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**Laboratory Procedures**

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.

**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.\(^2\)

**References**
