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Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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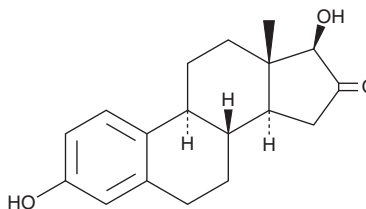
PRODUCT INFORMATION



16-Ketoestradiol

Item No. 36033

CAS Registry No.: 566-75-6
Formal Name: 3,17 β -dihydroxy-estra-1,3,5(10)-trien-16-one
Synonyms: 16-keto E₂, NSC 51169, 16-Oxoestradiol
MF: C₁₈H₂₂O₃
FW: 286.4
Purity: \geq 95%
Supplied as: A solid
Storage: -20°C
Stability: \geq 4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

16-Ketoestradiol is supplied as a solid. A stock solution may be made by dissolving the 16-ketoestradiol in the solvent of choice, which should be purged with an inert gas. 16-Ketoestradiol is slightly soluble in ethanol, methanol, and DMSO.

Description

16-Ketoestradiol is an active metabolite of the endogenous estrogen estrone (Item No. 10006485).¹ It is formed from estrone *via* an estriol (Item No. 10006484) or a 16-epiestriol (Item No. 33455) intermediate by oxidation of the C-16 hydroxyl. 16-Ketoestradiol binds to estrogen receptor α (ER α) and ER β with IC₅₀ values of 112.2 and 50.1 nM for the human receptors, respectively.² Intravaginal administration of 16-ketoestradiol increases vaginal epithelial thickness, stratification, and cornification in mice, indicating antiestrogenic activity.³

References

1. Brinton, L.A., Trabert, B., Anderson, G.L., *et al.* Serum estrogens and estrogen metabolites and endometrial cancer risk among postmenopausal women. *Cancer Epidemiol. Biomarkers Prev.* **25(7)**, 1081-1089 (2016).
2. Zhu, B.T., Han, G.-Z., Shim, J.-Y., *et al.* Quantitative structure-activity relationship of various endogenous estrogen metabolites for human estrogen receptor α and β subtypes: Insights into the structural determinants favoring a differential subtype binding. *Endocrinology* **147(9)**, 4132-4150 (2006).
3. Martin, L. Dimethylstilbestrol and 16-oxo-estradiol: Anti-estrogens or estrogens? *Steroids* **13(1)**, 1-10 (1969).

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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