**Product datasheet**

**Estradiol benzoate, Estradiol analog ab145743**

### Overview

**Product name**  Estradiol benzoate, Estradiol analog

**Description**  Estradiol analog which binds to the human, murine and chicken ERα with IC₅₀ of 22-28 nM.

**Biological description**  Estradiol analog which contains a benzyl ester at the C-3 position. Binds to the human and murine estrogen receptor α (ERα), and chicken ER with IC₅₀ values in the range of 22-28 nM. This reflects a 6-10 fold reduction in binding affinity compared to estradiol. Used in combination with a progestin to induce estrus in domestic livestock.

**Purity**  > 97%

### Properties

**Chemical name**  \([8R,9S,13S,14S,17S]-17\text{-Hydroxy-13-methyl-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta}\{a\}phenanthren-3-yl\] benzoate

**Molecular weight**  376.49

**Chemical structure**

![Chemical structure](image)

**Molecular formula**  C₂₅H₂₈O₃

**CAS Number**  50-50-0

**Storage instructions**  Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  Soluble in DMSO to 100 mM

**Handling**

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**Source**  Synthetic
Please note: All products are **FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS**

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