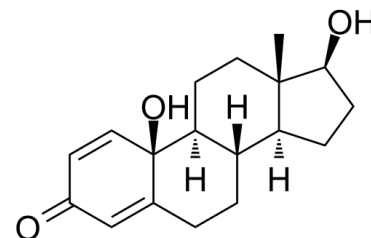


Data Sheet

Product Name:	10 β ,17 β -dihydroxyestra-1,4-dien-3-one
Cat. No.:	CS-0102991
CAS No.:	549-02-0
Molecular Formula:	C ₁₈ H ₂₄ O ₃
Molecular Weight:	288.38
Target:	Estrogen Receptor/ERR
Pathway:	Others
Solubility:	DMSO : 100 mg/mL (346.76 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

10 β ,17 β -dihydroxyestra-1,4-dien-3-one (DHED) is a brain-targeting bioprecursor prodrug of the main human **estrogen**, 17 β -estradiol, alleviates hot flushes in rat models of thermoregulatory dysfunction of the brain^[1]. **In Vivo:** 10 β ,17 β -dihydroxyestra-1,4-dien-3-one (DHED), is an inactive bioprecursor prodrug of 17 β -estradiol converting to 17 β -estradiol only in the brain. DHED as an E2-bioprecursor may be a viable approach for delivering E2 selectively into the brain for the potential treatment of hot flushes^[1].

References:

[1]. Merchenthaler I, et al. Treatment with an orally bioavailable prodrug of 17 β -estradiol alleviates hot flushes without hormonal effects in the periphery. Sci Rep. 2016 Aug 1;6:30721.

CAIndexNames:

Estra-1,4-dien-3-one, 10,17-dihydroxy-, (17 β)-

SMILES:

C[C@@]12[C@@H](O)CC[C@@]1([H])[C@]3([H])CCC4=CC(C=C[C@]4(O)[C@@]3([H])CC2)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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