



Product Information

Estrogen receptor inhibitor Ethisterone, Purity $\geq 98\%$

Cat. No.: X24-06-ZQ647

Size: 100 mg; 1 g

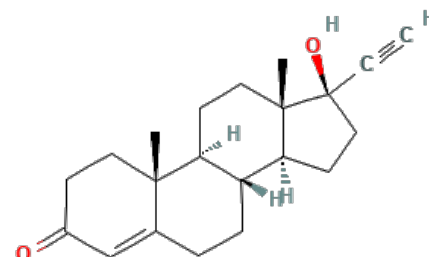
MDL: MFCD00003656

CAS Number: 434-03-7

Compound CID: 5284557

Synonym: 434-03-7; Estrogen receptor inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Ethisterone, soluble in DMSO and insoluble in ethanol and water, prevents the growth of cancer cells that depend on estrogen for proliferation.
Molecular Weight	312.45
Molecular Formula	C ₂₁ H ₂₈ O ₂
IUPAC Name	(8 <i>R</i> ,9 <i>S</i> ,10 <i>R</i> ,13 <i>S</i> ,14 <i>S</i> ,17 <i>R</i>)-17-ethynyl-17-hydroxy-10,13-dimethyl-2,6,7,8,9,11,12,14,15,16-decahydro-1 <i>H</i> -cyclopenta[<i>a</i>]phenanthren-3-one
InChI	InChI=1S/C21H28O2/c1-4-21(23)12-9-18-16-6-5-14-13-15(22)7-10-19(14,2)17(16)8-11-20(18,21)3/h1,13,16-18,23H,5-12H2,2-3H3/t16-,17+,18+,19+,20+,21+/m1/s1
InChI Key	CHNXZKVNWQUJIB-CEGNMAFCSA-N
Canonical SMILES	CC12CCC(=O)C=C1CCC3C2CCC4(C3CCC4(C#C)O)C
Isomeric SMILES	C[C@]12CCC(=O)C=C1CC[C@@H]3[C@@H]2CC[C@]4([C@H]3CC[C@]4(C#C)O)C
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 0.05 mg/mL (0.16 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Ethisterone functions as an estrogen receptor inhibitor, utilized in studies related to menstrual disorders and hormone therapy.



Storage

Store at -20°C, and keep desiccated.
