Etiocholanolone

**Cat. No.:** HY-113320  
**CAS No.:** 53-42-9  
**Molecular Formula:** C₁₉H₃₀O₂  
**Molecular Weight:** 290.44  
**Target:** GABA Receptor  
**Pathway:** Membrane Transporter/Ion Channel; Neuronal Signaling  
**Storage:** Please store the product under the recommended conditions in the COA.

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**BIOLOGICAL ACTIVITY**

**Description**  
Etiocholanolone (5β-Androsterone) is the excreted metabolite of testosterone and has anticonvulsant activity. Etiocholanolone is a less potent neurosteroid positive allosteric modulator (PAM) of the GABA<sub>A</sub> receptor than its enantiomer form.[2]

**In Vitro**  
Etiocholanolone (10 μM) coapplication with GABA leads to an increase in the relative frequency of long openings (fraction of OT3, site A2 effect), but it is ineffective at increasing the duration of long openings (site B effect) or at decreasing the relative frequency of the activation-related closed time component (site A1 effect).[2]

**In Vivo**  
Etiocholanolone (intraperitoneal injection; 0-109.1 mg/kg; single dose) exhibits ED50 values of 57.6 and 109.1 mg/kg in the 6-Hz and PTZ tests, respectively. Protective activity in the 6-Hz test of 5β,3α-A persists for 2 h and is shorter than ent-5β,3α-A treatment (3 hours) in mice.[1]

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**REFERENCES**


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