TOCRIS
a bio-techne brand

Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **17-PA** **Catalog No.: 2681** **Batch No.: 1**

CAS Number: 694438-95-4

IUPAC Name: 17-Phenyl-(3α,5α)-androst-16-en-3-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{34}O$

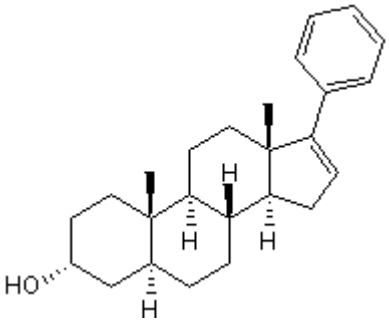
Batch Molecular Weight: 350.54

Physical Appearance: White solid

Solubility: DMSO to 25 mM
ethanol to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.23 (Ethyl acetate:Petroleum ether [1:7])

HPLC: Shows >99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	85.66	9.78	
Found	85.65	9.98	

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CAS Number: 694438-95-4

IUPAC Name: 17-Phenyl-(3α,5α)-androst-16-en-3-ol

Description:

Selective antagonist of neurosteroid potentiation and direct gating of $GABA_A$ receptors. Selectively reduces the effects of 5α-reduced steroids compared to 5β-reduced steroids and displays no effect on potentiation evoked by barbiturates and benzodiazepines. Attenuates 3α,5α-THP-induced loss of righting reflex and total sleep time following i.c.v administration in rats.

Physical and Chemical Properties:

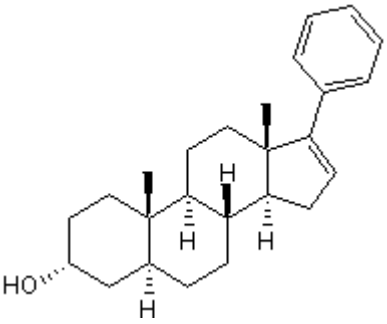
Batch Molecular Formula: $C_{25}H_{34}O$

Batch Molecular Weight: 350.54

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 mM
ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mennerick *et al* (2004) Selective antagonism of 5α-reduced neurosteroid effects at $GABA_A$ receptors. Mol.Pharmacol. ***65*** 1191. PMID: 15102947.

Akk *et al* (2007) Ethanol modulates the interaction of the endogenous neurosteroid allopregnanolone with the α1β2γ2L $GABA_A$ receptor. Mol.Pharmacol. ***71*** 461. PMID: 17105870.

Kelley *et al* (2007) Antagonism of neurosteroid modulaton of native γ-aminobutyric acid receptors by (3α,5α)-17-phenylandrost-16-en-3-ol. Eur.J.Pharmacol. ***572*** 94. PMID: 17658511.