

Cyproterone (acetate)

Catalog No: tcsc2891



Available Sizes

Size: 250mg

Size: 500mg



Specifications

CAS No:

427-51-0

Formula:

$C_{23}H_{27}ClO_4$

Pathway:

Others

Target:

Androgen Receptor

Purity / Grade:

>98%

Solubility:

H₂O :

Observed Molecular Weight:

402.91

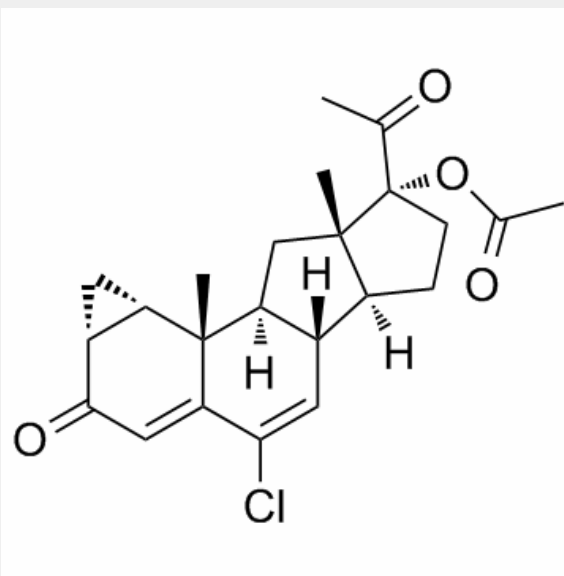
Product Description

Cyproterone acetate is an androgen receptor (AR) antagonist with IC₅₀ of 7.1 nM, as well as a weak progesterone receptor agonist with weak pro-gestational and glucocorticoid activity.

Target: Androgen Receptor

Cyproterone acetate clearly shows antagonistic properties, while being a partial agonist also, showing agonism for the AR, with EC₅₀

of 4.0 μ M, at relatively high concentrations [1]. In the presence of 10 nM Testosterone, low concentrations of Cyproterone acetate inhibits T-stimulated transcription of 3XHRE-LUC, but at higher concentrations, transcription is stimulated. LH levels in Cyproterone acetate-treated rats do not dip below pretreatment levels, although they does not increase as much in the rats treated with 3.2 mg Cyproterone acetate/kg/day as in those which received 0.2 mg Cyproterone acetate/kg/day [2]. Cyproterone acetate exhibits direct negative effect on reproductive organs weight and significant reducing effect on sperm count and Ca^{2+} contents. SOD and GST activities significantly decrease in addition to significant increase in NO, MDA contents reflecting the oxidative status of testis in Cyproterone acetate treated rats [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!