## Cyproterone acetate-d<sub>3</sub>

Cat. No.:	HY-13604S	
CAS No.:	2376035-90-2	, O D D
Molecular Formula:	C <sub>24</sub> H <sub>26</sub> D <sub>3</sub> ClO <sub>4</sub>	
Molecular Weight:	419.96	
Target:	Androgen Receptor; Isotope-Labeled Compounds	
Pathway:	Vitamin D Related/Nuclear Receptor; Others	0
Storage:	Please store the product under the recommended conditions in the Certificate of	CI
	Analysis.	

BIOEOGICAE ACTIVITY		
Description	Cyproterone acetate-d <sub>3</sub> is deuterium labeled Cyproterone acetate. Cyproterone acetate is an anti-androgen (IC50=7.1 nM) and progestogen synthetic steroid. Cyproterone acetate has affinity with progesteron and with glucocorticoidal receptors[1][2].	
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Chen L, et al. Cyproterone acetate enhances TRAIL-induced androgen-independent prostate cancer cell apoptosis via up-regulation of death receptor 5. BMC Cancer. 2017;17(1):179. Published 2017 Mar 7.

[3]. Migally N. Effect of cyproterone acetate on the structure of the adrenal cortex. Arch Androl. 1979;2(2):109-115.

[4]. Sonneveld, E., et al., Development of androgen- and estrogen-responsive bioassays, members of a panel of human cell line-based highly selective steroid-responsive bioassays. Toxicol Sci, 2005. 83(1): p. 136-48.

[5]. Takiguchi M, et al. Cyproterone acetate induces a cellular tolerance to cadmium in rat liver epithelial cells involving reduced cadmium accumulation. Toxicology. 2001;165(1):13-25.

[6]. Torri V,. Cyproterone acetate in the therapy of prostate carcinoma. Arch Ital Urol Androl. 2005;77(3):157-163.

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

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Product Data Sheet

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