

## **Lumiprobe Corporation**

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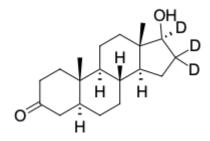
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## **5α-Dihydrotestosterone-d3**

http://www.lumiprobe.com/p/5alfa-dihydrotestosterone-d3

 $5\alpha$ -dihydrotestosterone-d3 (16,16,17-d3) contains a stable deuterium label and is suitable for use as an internal standard for determining the concentration of this hormone in biological samples by chromatographic methods with tandem mass spectrometry (MS/MS).

In the body,  $5\alpha$ -dihydrotestosterone (DHT) has pronounced androgenic activity; its affinity for androgen receptors is higher than that of testosterone. The conversion of testosterone to  $5\alpha$ -DHT is catalyzed by  $5\alpha$ -reductase (5AR).  $5\alpha$ -DHT is an important biological marker in the detection of many diseases.



## Structure of 5 $\alpha$ -Dihydrotestosterone-d3

## **General properties**

Appearance: white solid Molecular weight: 293.47 CAS number: 79037-34-6 Molecular formula:  $C_{19}H_{27}D_3O_2$ 

Solubility: Acetonitrile, DMSO

Quality control: NMR <sup>1</sup>H and HPLC-MS (95+ %, D: 98+ %)

Storage conditions: 24 months after receival at -20 °C in the dark. Transportation: at room temperature for up to 3 weeks.

Desiccate.

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efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic

products.