

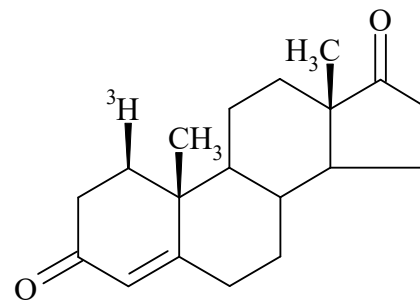
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ANDROST-4-ENE-3, 17-DIONE, [1 β -³H(N)]-

Product Number: NET926

LOT SPECIFIC INFORMATION

Lot Number:	2840591
Specific Activity:	20.7 Ci/mmol
	766 GBq/mmol
Production Date:	05-May-2021



M.W. 286
C₁₉H₂₆O₂

PACKAGING: 1.0 mCi/ml (37 MBq/ml) in ethanol. Shipped on dry ice.

STABILITY AND STORAGE RECOMMENDATIONS: When androst-4-ene-3, 17-dione, [1 β -³H(N)]- is stored at -20°C in its original solvent and at its original concentration, the rate of decomposition is initially 1% for 6 months from date of purification. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.

SPECIFIC ACTIVITY RANGE: 15-30 Ci/mmol (555-1110 GBq/mmol)

RADIOCHEMICAL PURITY: This product was initially found to be greater than 97% when determined by the following methods. The rate of decomposition can accelerate. It is advisable to check purity prior to use:

High pressure liquid chromatography on a Zorbax ODS column using the following mobile phase:
water : tetrahydrofuran : methanol (40:15:45)

Paper chromatography on Whatman No. 1 treated with 30% formamide in acetone using the following solvent system:
hexane saturated with formamide.

Thin layer chromatography on silica gel using the following solvent system:
toluene : ethyl acetate, (2:1).

QUALITY CONTROL: The radiochemical purity of androst-4-ene-3, 17-dione, [1 β -³H(N)]- is checked at appropriate intervals using the first listed chromatography method.

PREPARATIVE PROCEDURE: Androst-4-ene-3, 17-dione, [1 β -³H(N)]- is prepared by treatment of androst-4-ene-3, 17-dione, [1 β ,2 β -³H(N)]- with potassium hydroxide under appropriate conditions (1) Purification is by HPLC.

REFERENCE: H. Mohler, W. Sieghart, J. C. Richards and W. Hunkeler, *Eur. J. Pharmacol.*, 102, 191 (1984).

HAZARD INFORMATION: WARNING: This product contains a chemical known to the state of California to cause cancer.

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