

Product Data Sheet

Product Name: Hexestrol-d 4

Cat. No.: GC79877

Chemical Properties

Cas. No. 91889-42-8

Formula $C_{18}H_{18}D_4O_2$

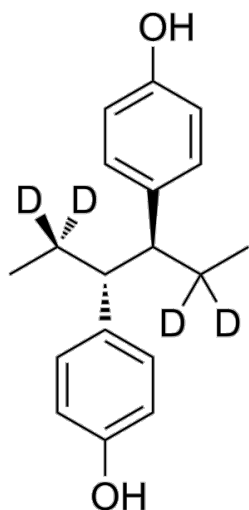
M.Wt 274.39

Solubility Storage Store at 4°C, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Hexestrol -d 4 is the deuterium labeled Hexestrol. Hexestrol is a nonsteroidal synthetic estrogen, with a K_i of 0.06 and 0.06 nM for estrogen receptor alpha (ER α) and ER β . Hexestrol can be used for the research of the diseases caused by estrogen deficiency, and it also can increase the weight of cattle [1] [2] [3].

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

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

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drugs.

References:

- [1]. HARDING FE, et, al. The oral use of hexestrol for estrogen deficiency. Am J Obstet Gynecol. 1946 May; 51: 660-5.
- [2]. Oliveira JM, et, al. Effects of hexestrol on mouse ovarian morphology and ovulation. Maturitas. 2008 Jun 20; 60(2): 153-7.
- [3]. Kuiper GG, et, al. Comparison of the ligand binding specificity and transcript tissue distribution of estrogen receptors alpha and beta. Endocrinology. 1997 Mar;138(3):863-70.

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