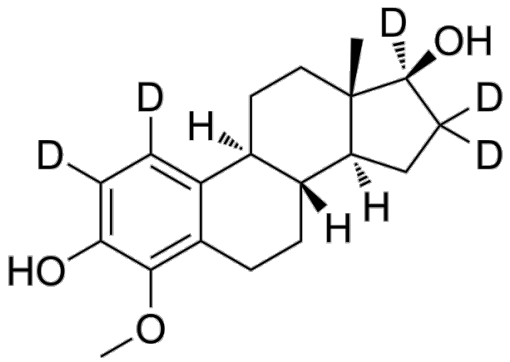
Product Data Sheet

Product Name: 4-Methoxyestradiol-d 5
Cat. No.: GC81626

Chemical Properties

Cas. No.			
Formula	$C_{19}H_{21}D_5O_3$	M.Wt	307.44
Solubility		Storage	Store at -20°C
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

4-Methoxyestradiol -d 5 is the deuterium labeled 4-Methoxyestradiol. 4-Methoxyestradiol is methoxylestradiol that induces oxidative DNA damage in human lung epithelial cells. 4-Methoxyestradiol also elevates ROS and SOD activities in H1355 cells [1].

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

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has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

[1]. Yahsin Cheng, et al. 4-Methoxyestradiol-induced oxidative injuries in human lung epithelial cells. Toxicol Appl Pharmacol. 2007 May 1;220(3):271-7.