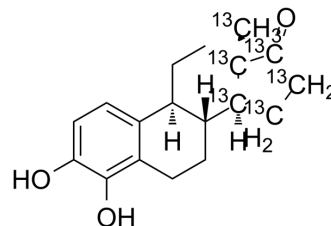


4-Hydroxyestrone-13C6

Cat. No.:	HY-W009300S1
Molecular Formula:	$C_{12}^{13}C_6H_{22}O_3$
Molecular Weight:	292.32
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4-Hydroxyestrone-13C6 (4-OHE1-13C6) is a 13C-labeled Hypoxanthine. Hypoxanthine, a purine derivative, is a potential free radical generator and could be used as an indicator of hypoxia.
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 ^[75] . 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):211-234.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-234.

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

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