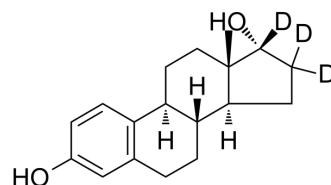


Alpha-Estradiol-d3

Cat. No.:	HY-B0141AS
Molecular Formula:	C ₁₈ H ₂₁ D ₃ O ₂
Molecular Weight:	275.4
Target:	5 alpha Reductase; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Alpha-Estradiol-d3 (Alfatradiol-d3) is the deuterium labeled Alpha-Estradiol. Alpha-Estradiol is a weak estrogen and a 5 α -reductase inhibitor which is used as a topical medication in the treatment of androgenic alopecia.
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 ^[1] . 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):211-216.

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

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