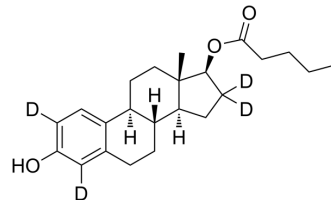


Estradiol valerianate-d₄

Cat. No.:	HY-B0672S1
CAS No.:	2673269-82-2
Molecular Formula:	C ₂₃ H ₂₈ D ₄ O ₃
Molecular Weight:	360.52
Target:	Estrogen Receptor/ERR; Isotope-Labeled Compounds
Pathway:	Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Estradiol valerianate-d ₄ is the deuterium labeled Estradiol valerianate. Estradiol valerianate (β-estradiol 17-valerate) is a synthetic estrogen widely used in combination with other steroid hormones in hormone replacement therapy agents.
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.
- [2]. Lei, B., et al., beta-estradiol 17-valerate affects embryonic development and sexual differentiation in Japanese medaka (*Oryzias latipes*). *Aquat Toxicol*, 2013. 134-135: p. 128-34.

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

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