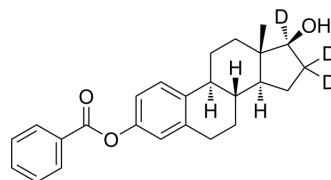


Estradiol benzoate-d₃

Cat. No.:	HY-B1192S		
CAS No.:	1192354-74-7		
Molecular Formula:	C ₂₅ H ₂₅ D ₃ O ₃		
Molecular Weight:	379.51		
Target:	Estrogen Receptor/ERR		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Estradiol benzoate-d₃ is the deuterium labeled Estradiol benzoate. Estradiol Benzoate (β-Estradiol 3-benzoate), a proagent of estradiol, acts as a steroid sex hormone. It exhibits mild anabolic and metabolic properties, and increases blood coagulability[1][2][3][4].

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]. Estradiol benzoate
- [3]. García-Gómez E, et al. Role of sex steroid hormones in bacterial-host interactions. *Biomed Res Int*. 2013;2013:928290.
- [4]. Zovko M, et al. Macromolecular prodrugs XI. Synthesis and characterization of polymer-estradiol conjugate. *Int J Pharm*. 2004 Nov 5;285(1-2):35-41.

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

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