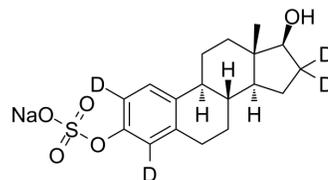


17β-Estradiol sulfate-d₄ sodium

Cat. No.:	HY-141672S1
CAS No.:	352431-50-6
Molecular Formula:	C ₁₈ H ₁₉ D ₄ NaO ₅ S
Molecular Weight:	378.45
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	17β-Estradiol sulfate-d ₄ (sodium) is the deuterium labeled 17β-Estradiol sulfate 17β-Estradiol sulfate (sodium), also known as β-Estradiol 3-sulfate sodium salt, is a neuroactive steroid[1][2].
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]. Li W, et al. Neuroactive steroids and human recombinant rho1 GABAC receptors. *J Pharmacol Exp Ther.* 2007;323(1):236-247.
- [3]. Schneider C, et al. A novel enzyme-linked immunosorbent assay for ethynylestradiol using a long-chain biotinylated EE2 derivative. *Steroids.* 2004;69(4):245-253.

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

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