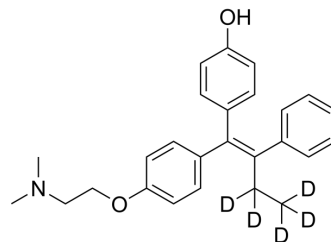


(E)-4-Hydroxytamoxifen-d₅

Cat. No.:	HY-16950BS		
Molecular Formula:	C ₂₆ H ₂₄ D ₅ NO ₂		
Molecular Weight:	392.54		
Target:	Estrogen Receptor/ERR; Isotope-Labeled Compounds		
Pathway:	Vitamin D Related/Nuclear Receptor; Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (254.75 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.5475 mL	12.7376 mL	25.4751 mL	
5 mM	0.5095 mL	2.5475 mL	5.0950 mL	
10 mM	0.2548 mL	1.2738 mL	2.5475 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(E)-4-Hydroxytamoxifen-d₅ ((E)-Afimoxifene-d₅) is the deuterium labeled (E)-4-Hydroxytamoxifen ((E)-Afimoxifene), the less active isomer of (Z)-4-hydroxytamoxifen, is an estrogen receptor modulator.

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA