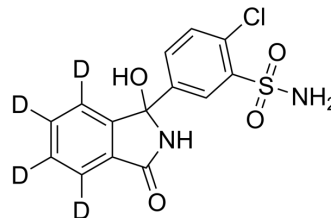


Chlorthalidone-d₄

Cat. No.:	HY-15833S		
CAS No.:	1794941-44-8		
Molecular Formula:	C ₁₄ H ₇ D ₄ ClN ₂ O ₄ S		
Molecular Weight:	342.79		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Chlorthalidone-d ₄ is the deuterium labeled Chlorthalidone. Chlorthalidone is a thiazide-like diuretic used to treat hypertension.
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]. Barrios V, et al. Which thiazide to choose as add-on therapy for hypertension? *Integr Blood Press Control.* 2014 Jul 30;7:35-47.; Ettinger B, et al. Chlorthalidone reduces calcium oxalate calculous recurrence but magnesium hydroxide does not. *J Urol.* 1988 Apr;139(4):679-84.

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