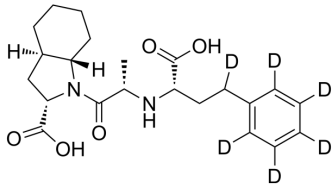
Trandolaprilate-d6

Cat. No.:	HY-A0116S1
Molecular Formula:	$C_{22}H_{24}D_6N_2O_5$
Molecular Weight:	408.52
Target:	Angiotensin-converting Enzyme (ACE); Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Trandolaprilate-d_6 is the deuterium labeled Trandolaprilate[1]. Trandolaprilate is a potent angiotensin-converting enzyme (ACE) inhibitor. Trandolaprilate partially inhibits angiotensin-I-mediated c-fos induction. Trandolaprilate is main bioactive metabolite of Trandolapril. Trandolaprilate shows high lipophilicity[2][3].
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 Feb;53(2):211-216.

[2]. Millet D, et al. Effects of angiotensins on cellular hypertrophy and c-fos expression in cultured arterial smooth muscle cells. Eur J Biochem. 1992 Jun 1;206(2):367-72.

[3]. Al-Hawash LA, et al. Stability-indicating HPLC determination of trandolapril in bulk drug and pharmaceutical dosage forms. Int J Anal Chem. 20152015:820517.

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