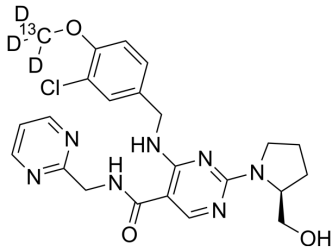
Avanafil-$^{13}C,d_3$

Cat. No.:	HY-18252S
Molecular Formula:	$C_{22}{}^{13}CH_{23}D_3ClN_7O_3$
Molecular Weight:	487.96
Target:	Phosphodiesterase (PDE); Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Avanafil-$^{13}C,d_3$ is the ^{13}C- and deuterium labeled Avanafil.
IC_{50} & Target	PDE1
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[39]. 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):211-223.

[2]. Kotera J, et al. Avanafil, a potent and highly selective phosphodiesterase-5 inhibitor for erectile dysfunction. J Urol. 2012 Aug;188(2):668-74.

[3]. Mochida H, et al. Avanafil, a highly selective phosphodiesterase type 5 inhibitor for erectile dysfunction, shows good safety profiles for retinal function and hemodynamics in anesthetized dogs. J Urol. 2013 Aug;190(2):799-806.

[4]. Wang R, et al. Selectivity of avanafil, a PDE5 inhibitor for the treatment of erectile dysfunction: implications for clinical safety and improved tolerability. J Sex Med. 2012 Aug;9(8):2122-9.

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

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