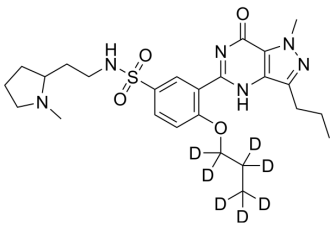
Udenafil-d_7

Cat. No.:	HY-18253S
CAS No.:	1175992-76-3
Molecular Formula:	$C_{25}H_{29}D_7N_6O_4S$
Molecular Weight:	523.7
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	Udenafil-d_7 is the deuterium labeled Udenafil. Udenafil (DA8159) is a potent, selective and orally active phosphodiesterase type 5 (PDE5) inhibitor. Udenafil also inhibits cGMP hydrolysis and can be used for erectile dysfunction research[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]. Zhao, C., et al., Activity of phosphodiesterase type 5 inhibitors in patients with lower urinary tract symptoms due to benign prostatic hyperplasia. BJU Int, 2011. 107(12): p. 1943-7.

[3]. Paick, J.S., et al., The efficacy and safety of udenafil, a new selective phosphodiesterase type 5 inhibitor, in patients with erectile dysfunction. J Sex Med, 2008. 5(4): p. 946-53.

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