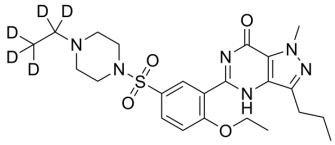
Homo Sildenafil-d_5

Cat. No.:	HY-131100S
CAS No.:	1216711-61-3
Molecular Formula:	$C_{23}H_{27}D_5N_6O_4S$
Molecular Weight:	493.63
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	Homo Sildenafil-d_5 is the deuterium labeled Homo Sildenafil. Homo Sildenafil, an analog of Sildenafil, acts as a phosphodiesterase inhibitor[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]. Jackie D Corbin, et al. Vardenafil: Structural Basis for Higher Potency Over Sildenafil in Inhibiting cGMP-specific phosphodiesterase-5 (PDE5). Neurochem Int. 2004 Nov;45(6):859-63.

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