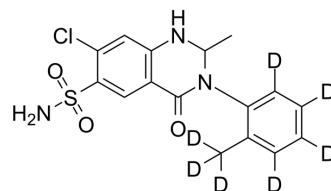


Metolazone-d7

Cat. No.:	HY-B0209S
CAS No.:	2714484-71-4
Molecular Formula:	C ₁₆ H ₉ D ₇ ClN ₃ O ₃ S
Molecular Weight:	372.88
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Metolazone-d7 is deuterium labeled Metolazone. Metolazone (SR-720-22) is primarily used to treat congestive heart failure and high blood pressure.
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]. Stern A. Metolazone, a diuretic agent. *Am Heart J*. 1976 Feb;91(2):262-3.
- [3]. Thompson DM. A new antihypertensive: metolazone treatment of hypertension. *J Kans Med Soc*. 1977 Jul;78(7):337-9, 342.

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

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