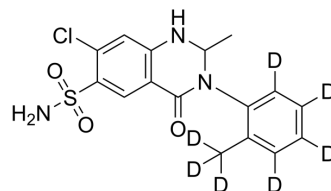


Metolazone-d₇

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:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (268.18 mM)
 H₂O : 0.67 mg/mL (1.80 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6818 mL	13.4091 mL	26.8183 mL
	5 mM	0.5364 mL	2.6818 mL	5.3637 mL
	10 mM	0.2682 mL	1.3409 mL	2.6818 mL

Please refer to the solubility information to select the appropriate solvent.

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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