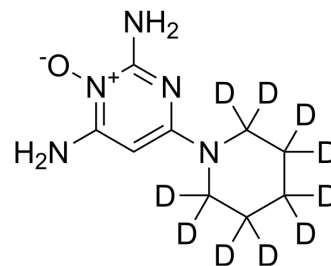


Minoxidil-d₁₀

Cat. No.:	HY-23196S		
CAS No.:	1020718-66-4		
Molecular Formula:	C ₉ H ₅ D ₁₀ N ₃ O		
Molecular Weight:	219.31		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Minoxidil-d ₁₀ (U10858-d10) is the deuterium labeled Minoxidil. Minoxidil (U10858) is an ATP-sensitive potassium (KATP) channel opener, a potent oral antihypertensive agent and a peripheral vasodilator that promotes vasodilation also affects hair growth. Minoxidil is also a potent inhibitor of soybean lipoxygenase with an IC ₅₀ of 20 μM[1][2][3].
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]. Cox L, et al. Levomepromazine for nausea and vomiting in palliative care. *Cochrane Database Syst Rev.* 2015;2015(11):CD009420. Published 2015 Nov 2.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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