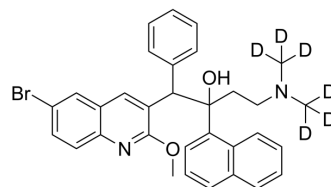


(Rac)-Bedaquiline-d₆

Cat. No.:	HY-14881S1	
CAS No.:	2517573-53-2	
Molecular Formula:	C ₃₂ H ₂₅ D ₆ BrN ₂ O ₂	
Molecular Weight:	561.54	
Target:	Isotope-Labeled Compounds	
Pathway:	Others	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description

(Rac)-Bedaquiline-d₆ is the deuterium labeled Bedaquiline (HY-14881)^[1]. Bedaquiline (TMC207) is a diarylquinoline agent and inhibits Mycobacterium tuberculosis (Mtb) F1FO-ATP synthase through targeting of both the c- and the ε-subunit^[2]. Bedaquiline has uncoupler activity. Bedaquiline is used for the multi-agent resistant tuberculosis^[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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