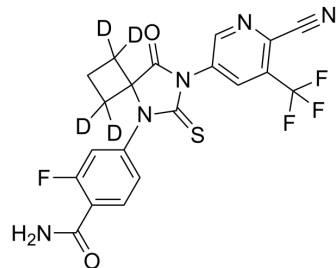


N-Desmethyl apalutamide-d₄

Cat. No.:	HY-W754151		
Molecular Formula:	C ₂₀ H ₉ D ₄ F ₄ N ₅ O ₂ S		
Molecular Weight:	467.43		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

N-Desmethyl apalutamide-d₄ is the deuterium-labeled N-Desmethyl-Apalutamide (HY-135331). N-Desmethyl Apalutamide is an active metabolite of Apalutamide. N-Desmethyl Apalutamide is a less potent antagonist of the androgen receptor and is responsible for one-third of the activity of Apalutamide. The formation of N-Desmethyl Apalutamide mediated predominantly by CYP2C8 and CYP3A4. N-Desmethyl Apalutamide is moderate to strong CYP3A4 and CYP2B6 inducer and has an excellent plasma-proteins bound concentration^{[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.

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

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