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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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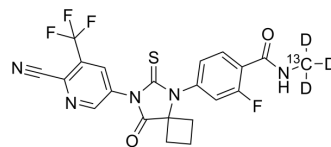
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Apalutamide-¹³C,₃D₃

Cat. No.:	HY-16060S2		
Molecular Formula:	C ₂₀ ¹³ CH ₁₂ D ₃ F ₄ N ₅ O ₂ S		
Molecular Weight:	481.45		
Target:	Androgen Receptor; Isotope-Labeled Compounds		
Pathway:	Vitamin D Related/Nuclear Receptor; Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Apalutamide- ¹³ C, ₃ D ₃ is the ¹³ C- and deuterium labeled Apalutamide. Apalutamide (ARN-509) is a potent and competitive androgen receptor (AR) antagonist, binding AR with an IC ₅₀ of 16 nM[1].
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 ^[38] . 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):211-223.
- [2]. Clegg NJ, et al. ARN-509: a novel antiandrogen for prostate cancer treatment. *Cancer Res*. 2012 Mar 15;72(6):1494-503.
- [3]. Smith MR, et al. Phase 2 Study of the Safety and Antitumor Activity of Apalutamide (ARN-509), a Potent Androgen Receptor Antagonist, in the High-risk Nonmetastatic Castration-resistant Prostate Cancer Cohort. *Eur Urol*. 2016 May 6. pii: S0302-2838(16)30133

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

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