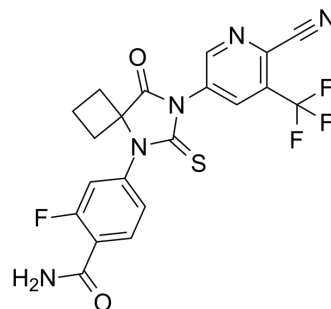


N-Desmethyl-Apalutamide

Cat. No.:	HY-135331		
CAS No.:	1332391-11-3		
Molecular Formula:	C ₂₀ H ₁₃ F ₄ N ₅ O ₂ S		
Molecular Weight:	463.41		
Target:	Androgen Receptor; Cytochrome P450		
Pathway:	Vitamin D Related/Nuclear Receptor; 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 (215.79 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1579 mL	10.7896 mL	21.5792 mL
5 mM	0.4316 mL	2.1579 mL	4.3158 mL
10 mM	0.2158 mL	1.0790 mL	2.1579 mL

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

BIOLOGICAL ACTIVITY

Description

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]}.

IC₅₀ & Target

CYP3A4 and CYP2B6^[1]; Androgen receptor^[2]

REFERENCES

[1]. Pérez-Ruixo C, et al. Population Pharmacokinetics of Apalutamide and its Active Metabolite N-Desmethyl-Apalutamide in Healthy and Castration-Resistant Prostate Cancer Subjects. Clin Pharmacokinet. 2019 Aug 20.

[2]. 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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