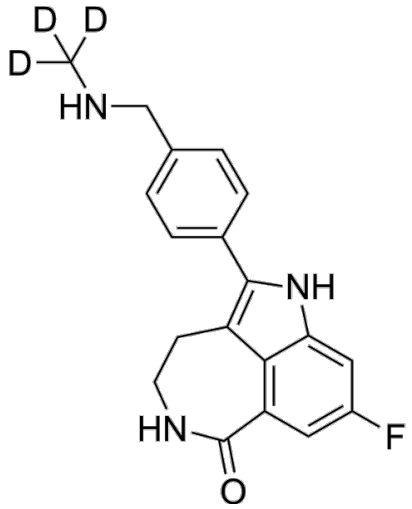
Product Data Sheet

Product Name: Rucaparib-d 3
Cat. No.: GC80334

Chemical Properties

Cas. No.	2271225-13-7		
Formula	$C_{19}H_{15}D_3FN_3O$	M.Wt	326.38
Solubility	DMSO: 50 mg/mL (153.20 mM; Need ultrasonic)	Storage	Store at -20°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Rucaparib -d 3 (AG014699-d 3) is the deuterated -labeled Rucaparib. Rucaparib (AG014699) is an orally active, potent inhibitor of PARP proteins (PARP-1, PARP-2 and PARP-3) with a K i of 1.4 nM for PARP1. Rucaparib is a modest hexose-6-phosphate dehydrogenase (H6PD) inhibitor. Rucaparib

has the potential for castration-resistant prostate cancer (CRPC) research [1] [2] [3] [4].

In Vivo, Animal Model: Female CD-1 nude mice aged 10-12 weeks with Capan-1 cells [2] Dosage: 10 mg/kg for i.p. or 50, 150 mg/kg for p.o. Administration: IP or PO Result: Significantly inhibited the growth of the tumor.

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.