## KSQ-4279

Cat. No.:	HY-145471					
CAS No.:	2446480-97-1					
Molecular Formula:	$C_{27}H_{25}F_{3}N_{8}O$					
Molecular Weight:	534.54					
Target:	Deubiquitinase; Apoptosis					
Pathway:	Cell Cycle/DNA Damage; Apoptosis					
Storage:	Powder	-20°C	3 years			
	In solvent	-80°C	6 months			
		-20°C	1 month			

### SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.8708 mL	9.3538 mL	18.7077 mL		
		5 mM	0.3742 mL	1.8708 mL	3.7415 mL		
		10 mM	0.1871 mL	0.9354 mL	1.8708 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
n Vivo		nt one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline g/mL (3.74 mM); Clear solution					
		one by one: 10% DMSO >> 90% cor 'mL (3.74 mM); Clear solution	n oil				

BIOLOGICAL ACTIVITY				
Description	KSQ-4279 (USP1-IN-1) is a potent, first-in-class, and highly selective USP1 inhibitor. KSQ-4279 shows anticancer effects <sup>[1]</sup> .			
In Vitro	In BRCA1/2-mutated breast cancer cells, KSQ-4279 induces S-phase cell cycle arrest, marked accumulation of gamma-H2A histone family member X (⊠H2AX) and increases apoptosis <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	KSQ-4279 shows dose-dependent, robust and durable anti-tumor regression in multiple TNBC and ovarian cancer Patient- derived xenografts (PDXs) with varied genomic status including BRCA1-mutated and -wildtype models <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet

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### REFERENCES

[1]. Natalie Y L Ngoi, et al. Targeting the DNA damage response beyond poly(ADP-ribose) polymerase inhibitors: novel agents and rational combinations. Curr Opin Oncol. 2022 Sep 1;34(5):559-569.

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

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