## SOS1-IN-15

Cat. No.:	HY-151881				
CAS No.:	2793404-47-2				
Molecular Formula:	C <sub>28</sub> H <sub>27</sub> F <sub>3</sub> N <sub>6</sub> O	2			
Molecular Weight:	536.55				
Target:	Ras				
Pathway:	GPCR/G Protein				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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## SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	1.8638 mL	9.3188 mL	18.6376 mL
		5 mM	0.3728 mL	1.8638 mL	3.7275 mL
		10 mM			

BIOLOGICAL ACTIV	ИТҮ			
Description	SOS1-IN-15 (Compound 37) is an orally active SOS1 inhibitor with an IC <sub>50</sub> of 5 nM. SOS1-IN-15 is a promising agent candidate for the research of KRAS-driven cancer <sup>[1]</sup> .			
IC <sub>50</sub> & Target	SOS1 5 nM (IC <sub>50</sub> )			
In Vitro	SOS1-IN-15 (Compound 37) (0.1 nM-0.1 mM; 72 h) displays prominent inhibitory activities in Mia-paca-2 cancer cells (IC <sub>50</sub> = 178 ± 42 nM) <sup>[1]</sup> . SOS1-IN-15 has a limited inhibition of CYP and hERG <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>			
	Concentration:	0.1 nM-0.1 mM		

## Product Data Sheet

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	Incubation Time:	72 h						
	Result:	Inhibited the proliferation with an IC $_{50}$ of 178 $\pm$ 42 nM.						
In Vivo	SOS1-IN-15 (Compound MCE has not independe		-	-			ly.	
	Animal Model:	BALB/c nude mice bearing Mia-paca-2 pancreas tumors $^{[1]}$						
	Dosage:	50 mg/kg						
	Administration:	Oral administration, daily for 22 days						
	Result:	Showed 49% tumor inhibition. No animal mortality and significant difference in the mice's body weight were observed during the study period.						
	Animal Model:	Male CD-1 Mice <sup>[1]</sup>						
	Dosage:	20 mg/kg						
	Administration:	Oral administration (Pharmacokinetic Analysis)						
	Result:	In Vivo Pharmacokinetic Properties of the Compounds in Male CD-1 Mice <sup>a</sup>						
			T <sub>1/2</sub> (h)	T <sub>max</sub> (h)	C <sub>max</sub> (ng/mL)	AUC (ng⊠ h/mL)	MRT (h)	K <sub>el</sub> (h <sup>-1</sup> )
		SOS1-IN-15	11.4	3.67	1550	9900	4.19	0.25
		<sup>a</sup> Compounds (20 mg/kg) were P.O. dosed in a mixture of 63% water + 30% PEG +5 % + 2% Tween 80 in male ICR mice (n = 3). Abbreviations: T <sub>1/2</sub> , elimination half-life; T <sub>n</sub> plasma peak time after administration; C <sub>max</sub> , maximum plasma concentration; AUC under concentration-time curve. MRT, mean residence time; K <sub>el</sub> , elimination rate co						fe; T <sub>max</sub> , ı; AUC, area

## REFERENCES

[1]. Zhang S, et al. Design and Structural Optimization of Orally Bioavailable SOS1 Inhibitors for the Treatment of KRAS-Driven Carcinoma. J Med Chem. 2022 Nov 17.

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

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