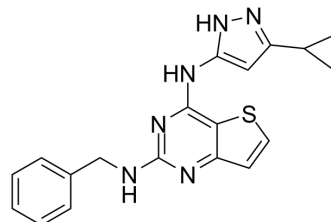


## ARN25068

<b>Cat. No.:</b>	HY-144290		
<b>CAS No.:</b>	2649882-80-2		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>18</sub> N <sub>6</sub> S		
<b>Molecular Weight:</b>	362.45		
<b>Target:</b>	GSK-3; DYRK		
<b>Pathway:</b>	PI3K/Akt/mTOR; Stem Cell/Wnt; Protein Tyrosine Kinase/RTK		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 200 mg/mL (551.80 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.7590 mL	13.7950 mL	27.5900 mL
	<b>5 mM</b>	0.5518 mL	2.7590 mL	5.5180 mL
	<b>10 mM</b>	0.2759 mL	1.3795 mL	2.7590 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 5 mg/mL (13.80 mM); Clear solution; Need ultrasonic  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 5 mg/mL (13.80 mM); Clear solution; Need ultrasonic			

### BIOLOGICAL ACTIVITY

<b>Description</b>	ARN25068 is a sub-micromolar inhibitor of the three protein kinases, GSK-3 $\beta$ , FYN and DYRK1A to tackle tau hyperphosphorylation <sup>[1]</sup> .
<b>In Vitro</b>	ARN25068 reduces the extent of tau phosphorylation in Tau0N4R-TM-tGFP U2OS cell line. ARN25068 exhibits IC <sub>50</sub> values of 4.17 and 2.17 $\mu$ M for GSK-3 $\beta$ and FYN in enzymatic radiometric assay, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Stefania Demuro, et al. ARN25068, a versatile starting point towards triple GSK-3 $\beta$ /FYN/DYRK1A inhibitors to tackle tau-related neurological disorders. Eur J Med Chem. 2022 Feb 5;229:114054.

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

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