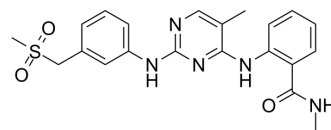


GSK-1520489A

Cat. No.:	HY-147312		
CAS No.:	1042433-41-9		
Molecular Formula:	C ₂₁ H ₂₃ N ₅ O ₃ S		
Molecular Weight:	425.5		
Target:	Others		
Pathway:	Others		
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 : 35.71 mg/mL (83.92 mM); ultrasonic and warming and heat to 70°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3502 mL	11.7509 mL	23.5018 mL
	5 mM	0.4700 mL	2.3502 mL	4.7004 mL
	10 mM	0.2350 mL	1.1751 mL	2.3502 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GSK-1520489A is a PKMYT1 (active protein kinase) inhibitor (IC₅₀=115 nM, K_i=10.94 nM)^[1].

IC₅₀ & Target

IC₅₀: 115 nM (PKMYT1)^[1]

In Vitro

GSK-1520489A (4 μM, 24 h) treatment shows inhibition of phosphorylation of Tyr15 in Cdk1^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Western Blot Analysis^[1]

Cell Line: HT29 cells

Concentration: 4 μM

Incubation Time:	24 hours
Result:	Reduced Cdk1-phosphorylation at tyrosine in comparison to the uninhibited reaction.

REFERENCES

[1]. Charlott Platzer, et al. Identification of PKMYT1 inhibitors by screening the GSK published protein kinase inhibitor set I and II. Bioorg Med Chem. 2018 Aug 7;26(14):4014-4024.

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

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