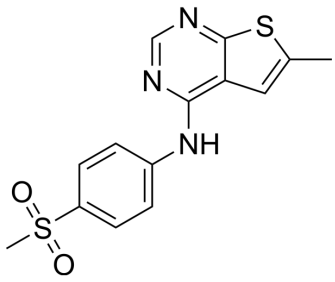
ARUK2001607

Cat. No.:	HY-152155
CAS No.:	2924824-56-4
Molecular Formula:	$C_{14}H_{13}N_3O_2S_2$
Molecular Weight:	319.4
Target:	PI5P4K
Pathway:	Metabolic Enzyme/Protease
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 : 25 mg/mL (78.27 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1309 mL	15.6544 mL	31.3087 mL
	5 mM	0.6262 mL	3.1309 mL	6.2617 mL
	10 mM	0.3131 mL	1.5654 mL	3.1309 mL

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

BIOLOGICAL ACTIVITY

Description

ARUK2001607 is a selective phosphatidylinositol 5-phosphate 4-kinase γ (PI5P4Kγ) inhibitor with a K_d of 7.1 nM. ARUK2001607 shows high selectivity over other >150 kinases[1].

IC_{50} & Target

Kd: 7.1 nM (PI5P4Kγ)[1]

In Vivo

In Vivo Mouse Pharmacokinetics Parameters for Selected ARUK2001607 (15) (5 mg/kg; ip Administration)[1]

	$T_{1/2}$ (h)	AUC (hr·ng/mL)	[plasma] at 0.5h (ng/mL)	[brain] at 0.5h (ng/g)	K_p
ARUK2001607 (15)	0.74	4520	2773	1590	0.58

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Timothy P C Rooney, et al. The Identification of Potent, Selective, and Brain Penetrant PI5P4Kγ Inhibitors as In Vivo-Ready Tool Molecules. J Med Chem. 2022 Dec 14.

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