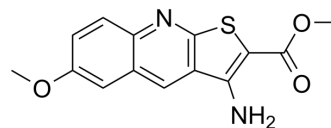


PU-48

Cat. No.:	HY-155642
CAS No.:	335394-78-0
Molecular Formula:	C ₁₄ H ₁₂ N ₂ O ₃ S
Molecular Weight:	288.32
Target:	Urea Transporter
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.67 mg/mL (23.13 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.4684 mL	17.3418 mL	34.6837 mL
5 mM	0.6937 mL	3.4684 mL	6.9367 mL
10 mM	0.3468 mL	1.7342 mL	3.4684 mL

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

BIOLOGICAL ACTIVITY

Description

PU-48 is a potent urea transporters A (UT-A) inhibitor (IC₅₀=0.32 μM). PU-48 has a good diuretic effect in mouse models, and shows little or no cytotoxicity. PU-48 has the potential to be developed as a diuretic^[1].

REFERENCES

[1]. Ren H, et al. Thienoquinolins exert diuresis by strongly inhibiting UT-A urea transporters. Am J Physiol Renal Physiol. 2014 Dec 15;307(12):F1363-72.

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

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