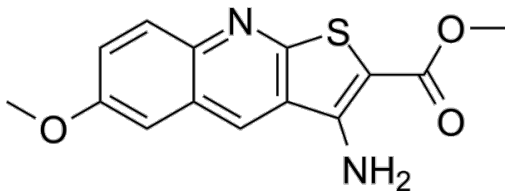
Product Data Sheet

Product Name: PU-48
Cat. No.: GC73586

Chemical Properties

Cas. No.	335394-78-0		
Formula	$C_{14}H_{12}N_2O_3S$	M.Wt	288.32
Solubility	DMSO : 6.67 mg/mL (23.13 mM; ultrasonic and warming and heat to 60°C)	Storage	4°C, protect from light, stored under nitrogen
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

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.

References:
[1]. Ren H, et al. Thienoquinolins exert diuresis by strongly inhibiting UT-A urea transporters. Am J

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Psiol Renal Psiol. 2014 Dec 15;307(12):F1363-72.