

Product Data Sheet

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

Chemical Properties

Cas. No. 335394-78-0

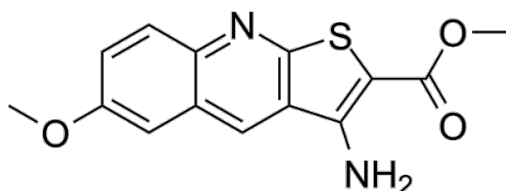
Formula $C_{14}H_{12}N_2O_3S$ M.Wt 288.32

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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

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