

Product Data Sheet

Product Name: Fluorofenidone

Cat. No.: GC38114

Chemical Properties

Cas. No. 848353-85-5

SMILES O=C1C=CC(C)=CN1C2=CC=CC(F)=C2

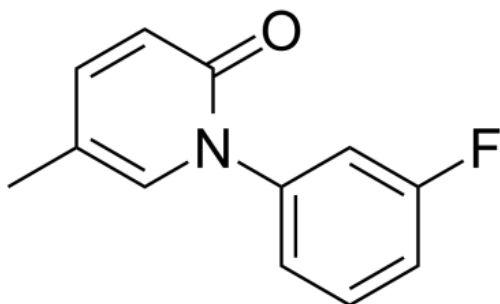
Formula $C_{12}H_{10}FNO$ M.Wt 203.21

Solubility DMSO: 140 mg/mL (688.94 mM) Storage Store at -20°C

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

Fluorofenidone (AKF-PD), an analogue of AMR69, shows equivalent antifibrotic activity, lower toxicity and longer half-life. Fluorofenidone (AKF-PD) attenuates the progression of renal interstitial fibrosis partly by suppressing NADPH oxidase and extracellular matrix (ECM) deposition via the PI3K/Akt signalling pathway[1][2].

[1]. Qin J, et al. Fluorofenidone inhibits nicotinamide adeninedinucleotide phosphate oxidase via PI3K/Akt pathway in the pathogenesis of renal interstitial fibrosis. Nephrology (Carlton). 2013

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

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Oct;18(10):690-9. [2]. Lou Q, et al. Design, synthesis and antifibrotic activities of carbohydrate-modified 1-(substituted aryl)-5-trifluoromethyl-2(1H) pyridones. Molecules. 2012 Jan 17;17(1):884-96.

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