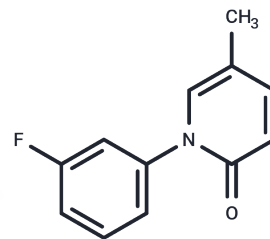


## Fluorofenidone

## Chemical Properties

CAS No. :	848353-85-5
Formula:	C <sub>12</sub> H <sub>10</sub> FNO
Molecular Weight:	203.21
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	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. Fluorofenidone is an analogue of AMR69. Which displays equivalent lower toxicity, antifibrotic activity, and longer half-life.
Targets(IC50)	Others,Akt,PI3K

## Solubility Information

Solubility	DMSO: 15 mg/mL (73.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.84 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.921 mL	24.6051 mL	49.2102 mL
5 mM	0.9842 mL	4.921 mL	9.842 mL
10 mM	0.4921 mL	2.4605 mL	4.921 mL
50 mM	0.0984 mL	0.4921 mL	0.9842 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Qin J, et al. Fluorofenidone inhibits nicotinamide adeninedinucleotide phosphate oxidase via PI3K/Akt pathway in the pathogenesis of renal interstitial fibrosis. *Nephrology (Carlton)*. 2013 Oct;18(10):690-9.

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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