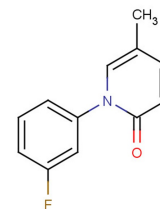


## Fluorofenidone

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No.:          | 848353-85-5  |
| Formula:          | C <sub>12</sub> H <sub>10</sub> FNO                                    |
| Molecular Weight: | 203.21   |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | Fluorofenidone, an analogue of AMR69, displays equivalent antifibrotic activity, longer half-life, and lower toxicity. It attenuates the progression of renal interstitial fibrosis partly by suppressing NADPH oxidase and extracellular matrix deposition via the PI3K/Akt signalling pathway. |
| Targets(IC <sub>50</sub> ) | Others: None   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 140 mg/mL (688.94 mM)<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg     |
|-------|----------|-----------|----------|
| 1 mM  | 4.921 mL | 24.605 mL | 49.21 mL |
| 5 mM  | 0.984 mL | 4.921 mL  | 9.842 mL |
| 10 mM | 0.492 mL | 2.461 mL  | 4.921 mL |
| 50 mM | 0.098 mL | 0.492 mL  | 0.984 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## 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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