

Pirfenidone

Catalog No: tcsc2905

 $\widehat{\mathbf{V}}$ Available Sizes

 Size: 100mg
 Size: 500mg

 Size: 1g
 Size: 5g

 $\widehat{\mathbf{V}}$ Specifications

 $\widehat{\mathbf{V}}$ Specifications

 CAS No: 53179-13-8
 Size: 5g

 Formula: $C_{12}H_{11}NO$ Specifications

 Size: Specifications
 Size: 5g

 Specifications
 Size: 5g

 Specifications
 Size: 5g

 Specifications
 Size: 5g

Target:

TGF-beta/Smad;TGF-beta/Smad

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (539.90 mM)

Alternative Names:

AMR69

Observed Molecular Weight:

185.22

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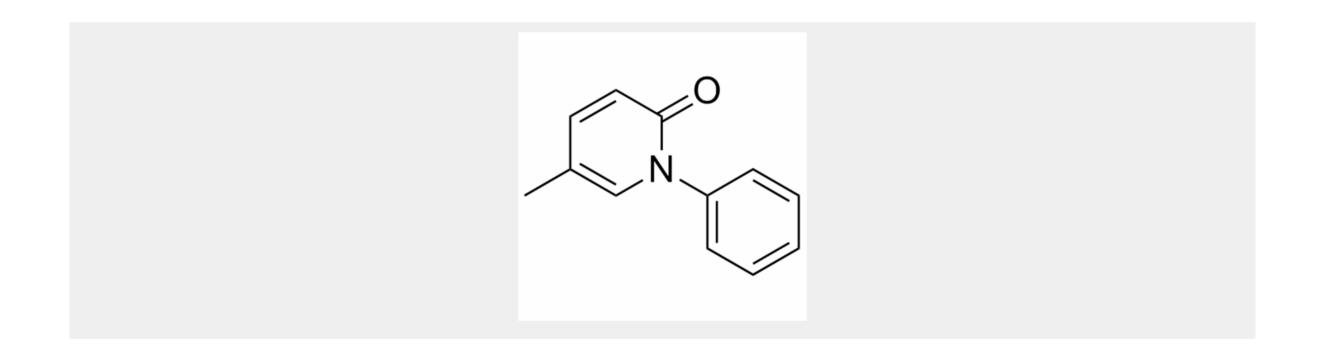
Product Description

Pirfenidone leads to a reduction of $TGF-\beta_2$ mRNA levels and of the mature $TGF-\beta_2$ protein due to decreased expression and direct inhibition of the $TGF-\beta$ pro-protein convertase furin.

IC50 & Target: TGF- $\beta_2^{[1]}$

In Vitro: Pirfenidone (PFD) reduces the protein levels of the matrix metalloproteinase (MMP)-11, a TGF-β target gene and furin substrate involved in carcinogenesis. These data define PFD or PFD-related agents as promising agents for human cancers associated with enhanced TGF-β activity^[1]. In RAW264.7 cells, a murine macrophage-like cell line, Pirfenidone suppresses the proinflammatory cytokine TNF-α by a translational mechanism, which is independent of activation of the MAPK2, p38 MAPK, and JNK. In the murine endotoxin shock model, Pirfenidone potently inhibits the production of the proinflammatory cytokines, TNF-α, interferon-γ, and interleukin-6, but enhances the production of the anti-inflammatory cytokine, interleukin-10^[2]. Pirfenidone (PFD) shows its inhibitory effects on the proliferation of HLECs. Cell proliferation is attenuated in the 0.3 mg/mL group after 24 hours compare with the control group (P=0.044). The effect is more apparent in the 0.5 mg/mL group at 24, 48, and 72 hours (P[3].

In Vivo: Administration of Pirfenidone (300 mg/kg/day) for 4 wk. Pirfenidone significantly attenuates the score when administered in Bleomycin (BLM)-treated mice (P[4].



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