

Pirfenidone, Antifibrotic agent

Catalog	Unit
TBI2307-5MG	5 mg
TBI2307-25MG	25 mg

Product Details

Formal Name: 5-Methyl-1-phenyl-2(1H)-pyridinone

Molecular Formula: C₁₂H₁₁NO

Formula Weight: 185.23

CAS Number: 53179-13-8

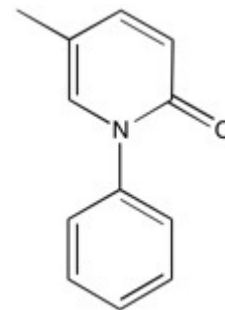
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Antifibrotic agent

Functions

Antifibrotic agent. Prevents lung fibrosis in bleomycin-induced animal models. Down-regulates bleomycin-induced overexpression of lung procollagen I and III genes. Up-regulates RGS2 (Regulator of G-protein Signaling 2) which represents a new mechanism of pirfenidone action. Inhibits fibroblast proliferation. Suppresses TNF α production at the translational level. Scavenges hydroxyl radicals and inhibits lipid peroxidation in a dose-dependent manner. Recently approved therapeutic agent for idiopathic pulmonary fibrosis. Orally active.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.