Certificate of Analysis

www.tocris.com

Product Name: Pirfenidone

CAS Number: 53179-13-8 IUPAC Name: 5-methyl-1-phenyl-2(1H)-pyridinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₂H₁₁NO 185.23 Off White solid water to 20 mM 1eq. HCl to 100 mM Store at RT

Me

Storage:

2. ANALYTICAL DATA HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.6% purity Consistent with structure Consistent with structure

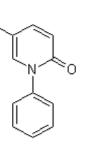
	Carbon Hydrogen Nitrogen			
Theoretical	77.81	5.99	7.56	
Found	77.94	5.99	7.64	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

Catalog No.: 1093 Batch No.: 7

Print Date: Jar	14 th 2019





TOCRIS a biotechne brand

Print Date: Jan 14th 2019

Batch No.: 7

www.tocris.com

Product Name: Pirfenidone

CAS Number: 53179-13-8

IUPAC Name: 5-methyl-1-phenyl-2(1*H*)-pyridinone

Description:

Antifibrotic agent, effective in models of pulmonary and lung fibrosis. Inhibits collagen production and fibroblast proliferation. Regulates cytokine levels following oral administration in vivo. Potent scavenger of free radicals and inhibitor of lipid peroxidation.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂H₁₁NO Batch Molecular Weight: 185.23 Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:

Me C

Storage: Store at RT

Solubility & Usage Info:

water to 20 mM 1eq. HCl to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Catalog No.: 1093

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mei *et al* (2005) Protection of pirfenidone against an early phase of oleic acid-induced acute lung injury in rats. J.Pharmacol.Exp.Ther. **313** 379. PMID: 15608079.

Oku *et al* (2002) Pirfenidone suppresses tumor necrosis factor- α , enhances interleukin-10 and protects mice from endotoxic shock. Eur.J.Pharmacol. **446** 167. PMID: 12098599.

Iyer *et al* (1999) Effects of pirfenidone on procollagen gene expression at the transcriptional level in bleomycin hamster model of lung fibrosis. J.Pharmacol.Exp.Ther. **289** 211. PMID: 10087006.

Kehrer and Margolin (1997) Pirfenidone diminishes cyclophosphamide-induced lung fibrosis in mice. Toxicol.Lett. 90 125. PMID: 9067480.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0) 1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0) 1235 529449www.tocris.com/distributors