

**Product Name:** PD 146176

**Catalog No.:** 2850

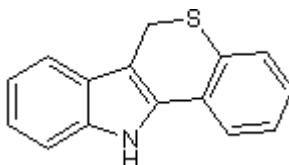
**Batch No.:** 1

CAS Number: 4079-26-9

IUPAC Name: 6,11-Dihydro[1]benzothiopyrano[4,3-*b*]indole

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>11</sub>NS  
**Batch Molecular Weight:** 237.32  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Melting Point:** At 160°C  
**HPLC:** Shows 98.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	75.92	4.68	5.9
Found	75.61	4.57	6.1

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

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**Description:**

Specific, non-competitive 15-lipoxygenase (15-LOX) inhibitor ( $K_i = 197\text{nM}$ ) that has no demonstrable effect on 5-LOX, 12-LOX, COX-1 or COX-2 ( $IC_{50} = 0.54 \mu\text{M}$  for 15-LOX in rabbit reticulocytes). Lacks non-specific antioxidant properties and prevents atherogenesis via regulation of monocyte-macrophage enrichment in vivo.

**Physical and Chemical Properties:**

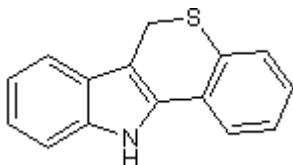
Batch Molecular Formula:  $C_{15}H_{11}NS$

Batch Molecular Weight: 237.32

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Sendobry et al** (1997) Attenuation of diet-induced atherosclerosis in rabbits with a highly selective 15-lipoxygenase inhibitor lacking significant antioxidant properties. *Br.J.Pharmacol.* **120** 1199. PMID: 9105693.

**Bocan et al** (1998) A specific 15-lipoxygenase inhibitor limits the progression and monocyte-macrophage enrichment of hypercholesterolemia-induced atherosclerosis in the rabbit. *Atherosclerosis* **136** 203. PMID: 9543090.

**Sordillo et al** (2005) Enhanced 15-HPETE production during oxidant stress induces apoptosis of endothelial cells. *Prostaglandins Other Lipid Mediat.* **76** 19. PMID: 15967159.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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).

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.

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