

Certificate of Analysis

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Product Name: PD 146176

Catalog No.: 2850

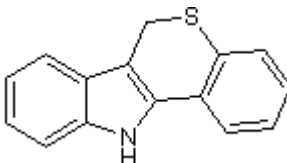
Batch No.: 1

CAS Number: 4079-26-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₁NS
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
¹H 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:

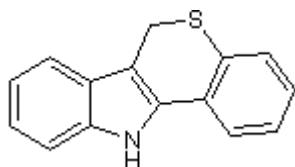
Batch Molecular Formula: $C_{15}H_{11}NS$

Batch Molecular Weight: 237.32

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Sendbry *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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