

Certificate of Analysis

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Product Name: Sulindac

Catalog No.: 1707

Batch No.: 1

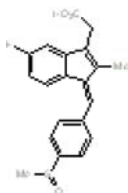
CAS Number: 38194-50-2

EC Number: 253-819-2

IUPAC Name: (1Z)-5-Fluoro-2-methyl-1-[[4-(methylsulfinyl)phenyl]methylene]-1*H*-indene-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₇FO₃S
Batch Molecular Weight: 356.41
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.85 (Dichloromethane:Methanol [5:1])
Melting Point: Between 188 - 192°C
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 67.4 | 4.81 | |
| Found | 67.36 | 4.77 | |

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

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Description:

Prodrug. Metabolizes to sulindac sulfide, a cyclooxygenase inhibitor that represses ras signaling, and sulindac sulfone, an antitumor agent, following oral administration in vivo. Widely used anti-inflammatory agent.

Physical and Chemical Properties:

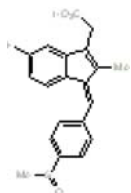
Batch Molecular Formula: C₂₀H₁₇FO₃S

Batch Molecular Weight: 356.41

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Haanen (2001) Sulindac and its derivatives: a novel class of anticancer agents. *Curr.Opin.Investig.Drugs* **2** 677. PMID: 11569947.

Taylor et al (2000) Sulindac sulfone inhibits K-ras-dependent cyclooxygenase-2 expression in human colon cancer cells. *Cancer Res.* **60** 6607. PMID: 11118042.

Shen and Winter (1977) Chemical and biological studies on indomethacin, sulindac and their analogs. *Adv.Drug Res.* **12** 90. PMID: 343530.

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