1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{17}\text{FO}_{3}\text{S} \)
Batch Molecular Weight: 356.41
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM, ethanol to 25 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_I = 0.85 \) (Dichloromethane:Methanol [5:1])
Melting Point: Between 188 - 192°C
HPLC: Shows >99.5% purity
\(^1\text{H} \) NMR: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>67.4</td>
<td>67.36</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.81</td>
<td>4.77</td>
</tr>
<tr>
<td>Nitrogen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Product Name: Sulindac
CAS Number: 38194-50-2
IUPAC Name: (1Z)-5-Fluoro-2-methyl-1-[[4-(methylsulfinyl)phenyl]methylene]-1H-indene-3-acetic acid

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: C_{19}H_{21}FO_{2}S
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: