

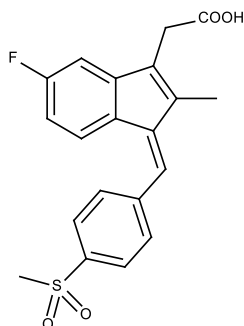
**Catalog # 10-1122**

**Sulindac Sulfone**

CAS# 59864-04-9

(Z)-5-Fluoro-2-methyl-1-[p-(methylsulfonyl)benzylidene]indene-3-acetic acid

Lot # FB1175



Metabolite of the cyclooxygenase inhibitor sulindac that induces apoptosis via inhibition of type 5 phosphodiesterases.<sup>1</sup> Sulindac sulfone does not inhibit cyclooxygenase at physiological concentrations but does inhibit K-ras-dependent cyclooxygenase-2 expression in colon cancer cells.<sup>2</sup> Modulates beta-catenin mediated effects.<sup>3</sup>

- 1) Thompson et al. (2000) *Exisulind induction of apoptosis involves guanosine 3',5'-cyclic monophosphate phosphodiesterase inhibition, protein kinase G activation and attenuated beta-catenin*. *Cancer Res.* **60** 3338
- 2) Taylor et al. (2000) *Sulindac sulfone inhibits K-ras-dependent cyclooxygenase-2 expression in human colon cancer cells* *Cancer Res.* **60** 6607
- 3) Bravi et al. (2015) *Sulindac metabolites decrease cerebrovascular malformations in CCM3-knockout mice*; *Proc. Natl. Acad. Sci. USA*, **112** 8421

**PHYSICAL DATA**

|                        |  |
|------------------------|--|
| Molecular Weight:      | 372.41   |
| Molecular Formula:     | C <sub>20</sub> H <sub>17</sub> FO <sub>4</sub> S  |
| Purity:                | >98% by TLC (10% Methanol/methylene chloride; R <sub>f</sub> = 0.40)   |
|                        | NMR: Conforms  |
| Solubility:            | DMSO (at least 25 mg/mL)   |
| Physical Description:  | Yellow solid   |
| Storage and Stability: | Store as supplied at room temperature for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 1 week. |

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