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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

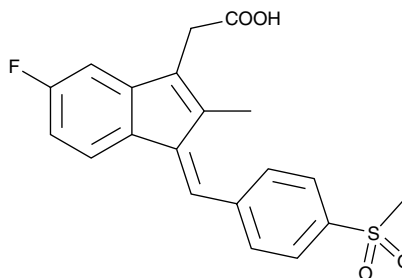
Product Information



Sulindac sulfone

Item No. 16805

CAS Registry No.: 59864-04-9
Formal Name: 5-fluoro-2-methyl-1-[[4-(methylsulfonyl)phenyl]methylene]-1H-indene-3-acetic acid
Synonym: Exisulind
MF: C₂₀H₁₇FO₄S
FW: 372.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 231, 283, 330 nm



Laboratory Procedures

For long term storage, we suggest that sulindac sulfone be stored as supplied at -20°C. It should be stable for at least two years.

Sulindac sulfone is supplied as a crystalline solid. A stock solution may be made by dissolving the sulindac sulfone in the solvent of choice. Sulindac sulfone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of sulindac sulfone in ethanol is approximately 2 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of sulindac sulfone can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of sulindac sulfone in PBS, pH 7.2, is approximately 0.05 mg/ml. For maximum solubility in aqueous buffers, sulindac sulfone should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Sulindac sulfone has a solubility of approximately 0.15 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Sulindac (Item No. 10004386) is a non-steroidal anti-inflammatory drug that has an extensive epidemiology documenting reduced human colorectal cancer. In mouse models, sulindac was found not only to inhibit the enzymatic activity of polyp-associated COX-2, but also to downregulate the expression of colonic COX-2 protein to control levels.¹ Sulindac sulfone is an oxidized metabolite of sulindac that is produced in many mammals but minimally in mice and rats.^{2,3} It is generally considered to be inactive against COX enzymes, although it can reduce azoxymethane-induced colon cancer in rats.^{4,5} Sulindac sulfone inhibits aldose reductase (IC₅₀ = 367 nM) *in vitro* and may contribute to the beneficial pharmacological effects of sulindac on type 2 diabetic complications.⁶

References

1. Boolbol, S.K., Dannenberg, A.J., Chadburn, A., *et al. Cancer Res.* **56**, 2556-2560 (1996).
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3. Brunell, D., Sagher, D., Kesaraju, S., *et al. Drug Metab. Dispos.* **39**(6), 1014-1021 (2011).
4. Babbar, N., Ignatenko, N.A., Casero, R.A., Jr., *et al. J. Biol. Chem.* **278**(48), 47762-47775 (2003).
5. Piazza, G.A., Alberts, D.S., Hixson, L.J., *et al. Cancer Res.* **57**(14), 2909-2915 (1997).
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Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16805

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com