



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

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)



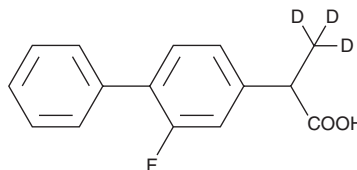
PRODUCT INFORMATION



Flurbiprofen-d₃

Item No. 25277

CAS Registry No.: 1185133-81-6
Formal Name: 2-(2-fluoro-[1,1'-biphenyl]-4-yl)propanoic-3,3,3-d₃ acid
MF: C₁₅H₁₀D₃FO₂
FW: 247.3
Chemical Purity: ≥98% (Flurbiprofen)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Flurbiprofen-d₃ is intended for use as an internal standard for the quantification of flurbiprofen (Item Nos. 70250 | 10004207 | 70255) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Flurbiprofen-d₃ is supplied as a solid. A stock solution may be made by dissolving the flurbiprofen-d₃ in the solvent of choice. Flurbiprofen-d₃ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of flurbiprofen-d₃ in these solvents is approximately 25, 10, and 25 mg/ml, respectively.

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 flurbiprofen-d₃ can be prepared by directly dissolving the solid in aqueous buffers. The solubility of flurbiprofen-d₃ in PBS, pH 7.2, is approximately 0.9 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Flurbiprofen is a non-selective COX inhibitor (IC₅₀s = 0.04 and 0.51 μM for COX-1 and COX-2, respectively).¹ *In vivo*, flurbiprofen (0.3-4.8 mg/kg, p.o.) reduces carrageenan-induced hind paw edema and yeast-induced fever in rats.² Flurbiprofen reduces plasma fibrinogen levels and arthritic score in a rat model of adjuvant-induced arthritis. It also reduces tumor weight and prostaglandin production and increases survival in a WHT-NC mouse xenograft model when administered at a dose of 5 mg/kg.³ Formulations containing flurbiprofen have been used to manage pain and inflammation associated with arthritis.

References

1. Barnett, J., Chow, J., Ives, D., *et al.* *Biochim Biophys. Acta.* **1209**(1), 130-139 (1994).
2. Glenn, E.M., Rohloff, N., Bowman, B.J., *et al.* *Agents Actions* **3**(4), 210-216 (1973).
3. Bennett, A., Houghton, J., Leaper, D.J., *et al.* *Br. J. Pharmacol.* **63**(2), 356P-357P (1978).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 05/22/2018

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM