

Product Data Sheet

Product Name: (S)-Flurbiprofen-d 3

Cat. No.: GC80415

Chemical Properties

Cas. No.

Formula $C_{15}H_{10}D_3FO_2$

M.Wt 247.28

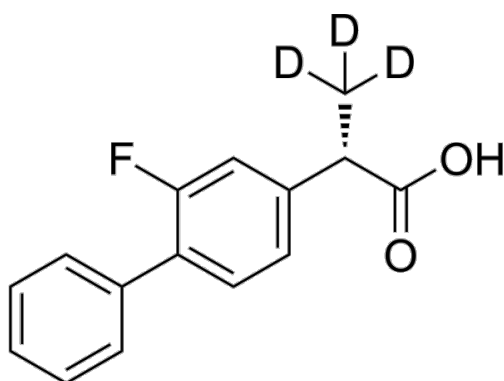
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

(S)-Flurbiprofen-d3 (Esflurbiprofen-d3) is the deuterium labeled (S)-Flurbiprofen. (S)-Flurbiprofen is an active enantiomer of Flurbiprofen, with IC_{50} values of 0.48 μM and 0.47 μM for COX-1 and COX-2, respectively [1].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration

Caution: Product has not been fully validated for medical applications. For research use only.

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has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. A Carabaza, et al. Stereoselective Inhibition of Inducible Cyclooxygenase by Chiral Nonsteroidal Antiinflammatory Drugs. *J Clin Pharmacol*. 1996 Jun;36(6):505-12.
- [3]. B Averbeck, et al. Inflammatory Mediators Do Not Stimulate CGRP Release if Prostaglandin Synthesis Is Blocked by S(+)-flurbiprofen in Isolated Rat Skin. *Inflamm Res*. 2003 Dec;52(12):519-23.

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