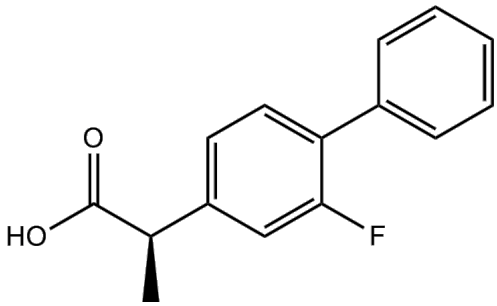
Product Data Sheet

Product Name: Flurbiprofen
Cat. No.: GC16880

Chemical Properties

Cas. No.	5104-49-4		
Chemical Name	2-(3-fluoro-4-phenylphenyl)propanoic acid		
SMILES	CC(C1=CC(=C(C=C1)C2=CC=CC=C2)F)C(=O)O		
Formula	$C_{15}H_{13}FO_2$	M.Wt	244.26
Solubility	≥ 11.35 mg/mL in DMSO, ≥ 51.2 mg/mL in EtOH	Storage	Store at RT
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

Flurbiprofen is a nonsteroidal anti-inflammatory agent (NSAIA) with antipyretic and analgesic activity.Target: PGE synthaseFlurbiprofen, a propionic acid derivative, is a nonsteroidal anti-inflammatory agent (NSAIA) with antipyretic and analgesic activity. Oral formulations of flurbiprofen

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may be used for the symptomatic treatment of rheumatoid arthritis, osteoarthritis and anklylosing spondylitis. Flurbiprofen may also be used topically prior to ocular surgery to prevent or reduce intraoperative miosis. Flurbiprofen is structurally and pharmacologically related to fenoprofen, ibuprofen, and ketoprofen. Flurbiprofen may have unique pharmacological properties that reduce the accumulation of unfolded proteins and may represent a new class of drug for the fundamental treatment of obesity [1]. Flurbiprofen and its enantiomers selectively lower Aβ42 levels in broken cell γ-secretase assays, indicating that these compounds directly target the γ-secretase complex that generates Aβ from APP. Of the compounds tested, meclofenamic acid, racemic flurbiprofen, and the purified R and S enantiomers of flurbiprofen lowered Aβ42 levels to the greatest extent [2].

References:

[1]. Hosoi, T., et al., Flurbiprofen ameliorated obesity by attenuating leptin resistance induced by endoplasmic reticulum stress. EMBO Mol Med, 2014.
[2]. Eriksen, J.L., et al., NSAIDs and enantiomers of flurbiprofen target gamma-secretase and lower Abeta 42 in vivo. J Clin Invest, 2003. 112(3): p. 440-9.

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