

Certificate of Analysis

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Product Name: FK 3311

Catalog No.: 2776

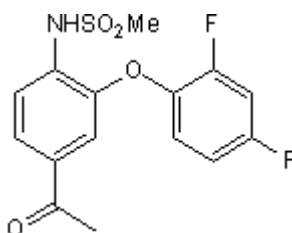
Batch No.: 1

CAS Number: 116686-15-8

IUPAC Name: *N*-[4-Acetyl-2-(2,4-difluorophenoxy)phenyl]methanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃F₂NO₄S
Batch Molecular Weight: 341.33
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Diethyl ether:Petroleum ether [1:1])
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.78	3.84	4.1
Found	52.39	3.62	3.6

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Cyclooxygenase-2 (COX-2) inhibitor. Inhibits zymosan-induced prostaglandin E₂ production by rat peritoneal neutrophils in vitro and adjuvant-induced arthritis in vivo. Anti-inflammatory.

Physical and Chemical Properties:

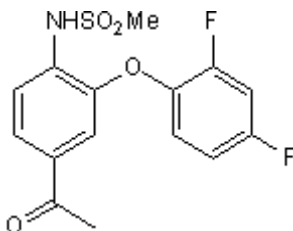
Batch Molecular Formula: C₁₅H₁₃F₂NO₄S

Batch Molecular Weight: 341.33

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Tsuji et al (1992) Studies on antiinflammatory agents. I. Synthesis and pharmacological properties of 2'-phenoxy-methanesulfonamide derivatives. *Chem.Pharm.Bull.* **40** 2399. PMID: 1446362.

Nakamura et al (1993) Studies on antiinflammatory agents. III. Synthesis and pharmacological properties of metabolites of 4'-acetyl-2'-(2,4-difluorophenoxy)methanesulfonamide (FK3311). *Chem.Pharm.Bull.* **41** (2050).

Otani et al (2007) Effects of the COX-2 inhibitor FK3311 on ischemia-reperfusion injury in the rat lung. *J.Invest.Surg.* **20** 175. PMID: 17613692.

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